Training Program Worldwide 2015
Technical Training
Update Nov 2014

Global Training – The finest automotive learning.

Mercedes-Benz
# TECHNICAL TRAINING

## Comfort/Convenience and Safety Systems
- T1356Q • Trucks • Qualification Program • 2015 • Comfort and Safety System Technician

## Fundamentals
- T1355E • Qualification Program 2015 • Maintenance Technician • Final Test • Fly

## Telecommunications
- T1347F • smart • Telematics • Run

## Mercedes-Benz Service24h
- V0084F • Passenger Cars • Mercedes-Benz Service24h • Organization and Processing • Module 1 • Go
- V0085F • Passenger Cars • Mercedes-Benz Service24h • Customer-Oriented Behavior in Breakdown Cases • Module 2 • Go
- V0088P • Passenger Cars • Mercedes-Benz Service24h • Organization, Breakdown Case Processing and Customer-oriented Behavior at the Breakdown Location • Go
- V0100E • Passenger Cars, Vans, Trucks • Roadside Assistance • Mercedes-Benz Service24h • e-Training • Go
- V0086F • Vans, Trucks • Mercedes-Benz Service24h • Damage Diagnosis and Repair • Supplementary Information for Major Assemblies and Special Vehicles • Run
- T1086F • Trucks • Mercedes-Benz Service24h • Damage Diagnosis and Repair • Actros, Arocs, Atego Euro VI (Model Series 963, 964, 967) • Level 1 • Run
- T1087F • Trucks • Mercedes-Benz Service24h • Damage Diagnosis and Repair • Supplementary Information for Major Assemblies and Special Vehicles • Run
# Fundamentals

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Page</th>
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<tbody>
<tr>
<td>T0177F</td>
<td>Passenger Cars • XENTRY Kit &amp; Star Diagnosis • Level I • Go</td>
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<td>Passenger Cars • XENTRY Kit &amp; Star Diagnosis • Level II • Run</td>
<td>26</td>
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<td>Passenger Cars • Electrical System • Level I • Go</td>
<td>27</td>
</tr>
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<td>Passenger Cars • Electrical System • Level II • Go</td>
<td>28</td>
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<td>Passenger Cars • Qualification Program • 2015 • Cross-System Competence for System Technicians • Final Test • Go</td>
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<td>smart • smart fortwo Introduction • Go</td>
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</tr>
<tr>
<td>T1091E</td>
<td>smart • Qualification Program • 2014, 2015 • Cross-System Competence for smart Technicians • Final Test • Go</td>
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<td>T0119F</td>
<td>Vans • Alternative Drives • Product Qualification of the Vito E-CELL • Go</td>
<td>33</td>
</tr>
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<td>T0165F</td>
<td>Vans • Vito and Viano Model Series 639 • Go</td>
<td>34</td>
</tr>
<tr>
<td>T0687E</td>
<td>Vans, Trucks • Qualification Program 2014 • Maintenance Technician • Initial Test • Go</td>
<td>35</td>
</tr>
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<td>36</td>
</tr>
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<td>37</td>
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<td>Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Initial Test • Go</td>
<td>38</td>
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<td>Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go</td>
<td>39</td>
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<td>T0222F</td>
<td>Trucks, Vans • Electrical System • Level I • Go</td>
<td>40</td>
</tr>
<tr>
<td>T0223F</td>
<td>Trucks, Vans • Electrical System • Level II • Go</td>
<td>41</td>
</tr>
<tr>
<td>T0224F</td>
<td>Trucks, Vans • Electrical System • Level III • Go</td>
<td>42</td>
</tr>
<tr>
<td>T0212F</td>
<td>Trucks, Vans • Mercedes-Benz Product Technology • Maintenance and Service • Go</td>
<td>43</td>
</tr>
<tr>
<td>T1057F</td>
<td>Trucks • Overall Vehicle • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run</td>
<td>44</td>
</tr>
<tr>
<td>T0179F</td>
<td>Trucks, Vans • XENTRY Kit &amp; Star Diagnosis • Level I • Go</td>
<td>45</td>
</tr>
<tr>
<td>T0180F</td>
<td>Trucks, Vans • XENTRY Kit &amp; Star Diagnosis • Level II • Run</td>
<td>46</td>
</tr>
<tr>
<td>T0146F</td>
<td>Trucks • Actros Road Vehicle • Go</td>
<td>47</td>
</tr>
<tr>
<td>T0108E</td>
<td>Trucks • Atego Euro VI Standard • e-Training • Go</td>
<td>48</td>
</tr>
<tr>
<td>T0141F</td>
<td>Trucks • Off-Road • Zetros • Run</td>
<td>49</td>
</tr>
<tr>
<td>T0095E</td>
<td>Trucks • Actros BR 963 • e-Training • Go</td>
<td>50</td>
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<tr>
<td>T0107E</td>
<td>Trucks • Overall Vehicle • The New Antos • e-Training • Go</td>
<td>51</td>
</tr>
<tr>
<td>T0945F</td>
<td>Trucks • Overall Vehicle • Econic Model Series 956 • Go</td>
<td>52</td>
</tr>
<tr>
<td>T0763F</td>
<td>Trucks • Econic model refinement • Market launch of Euro VI standard and new engine series • Run</td>
<td>53</td>
</tr>
<tr>
<td>T1058F</td>
<td>Trucks • Special-Purpose Vehicles • Heavy-Duty Truck BR 964 • Go</td>
<td>54</td>
</tr>
<tr>
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<td>Trucks • Qualification Program • 2015 • Cross-System Competence for System Technicians</td>
<td>55</td>
</tr>
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<td>56</td>
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<tr>
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<td>Trucks • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go</td>
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# Maintenance

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
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<td>Passenger Cars • Maintenance Service • Go</td>
<td>58</td>
</tr>
<tr>
<td>T1342Q</td>
<td>Passenger Cars • Qualification Program • 2015 • Maintenance Technicians</td>
<td>59</td>
</tr>
<tr>
<td>T0694F</td>
<td>Passenger Cars • Maintenance Service • New types • New Features and Modifications • Run</td>
<td>60</td>
</tr>
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<td>T0213F</td>
<td>Passenger Cars • Mercedes-Benz Product Technology • Maintenance and Service • Go</td>
<td>61</td>
</tr>
<tr>
<td>T0500F</td>
<td>smart • smart fortwo Introduction • Go</td>
<td>62</td>
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### On-board Electrical System, Bus System

<table>
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<tr>
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<tr>
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<td>Passenger Cars, Trucks, Vans, smart</td>
<td>Diagnostic Strategy 1 • Go</td>
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<td>Passenger Cars</td>
<td>On-Board Electrical and Bus Systems • Run</td>
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<td>Passenger Cars</td>
<td>Wiring Harness Repair • Go</td>
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<td>Vans</td>
<td>System Networking and Instrumentation • Sprinter Facelift, Vito/Viano, Citan (Model Series 906, 639, 415) • Run</td>
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<td>Vans</td>
<td>System Networking and Instrumentation • New V-Class and New Vito (Model Series 447) • Run</td>
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<td>Vans</td>
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<td>T1028F</td>
<td>Trucks</td>
<td>System Networking and Instrumentation • Actros, Antos, Arocs, Atego Euro VI (Model Series 963, 964, 967) • Run</td>
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<td>smart • Certified Diagnosis Technician • Drivetrain and Suspension • Run</td>
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<td>smart • Certified Diagnosis Technician • Electrical System • Run</td>
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<td>Vans • Mercedes-Benz Certified Diagnosis Technician • Suspension • Run</td>
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<td></td>
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<td>Vans • Mercedes-Benz Certified Diagnosis Technician • Electrical Components, Comfort and Telematics • Run</td>
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<td>Vans • Mercedes-Benz Certified Diagnosis Technician • Further Training • Fly</td>
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<td>Vans • Mercedes-Benz Certified Diagnosis Technician • Further Training • Fly</td>
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<tr>
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<tr>
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<tr>
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<tr>
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<td>Trucks • Mercedes-Benz Certified Diagnostic Technicians • Test Preparation • Run</td>
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<tr>
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Overall Vehicle

T0004F • Passenger Cars, Trucks, Vans, smart • Diagnostic Strategy 1 • Go
T1252Q • FUSO • Qualification Program • 2015 • Fuso Technician • Run
T1246E • FUSO • Qualification Program • 2015 • Fuso Technicians • Final Test • Go
T0509F • FUSO • Diesel Engines • Canter TD • Parameterization of the Engine Control Unit for Operations with Mercedes-Benz Diagnostic System (Star Diagnosis) • Run
T0890E • Passenger Cars • System Technician • Knowledge Check • Go
T1247F • FUSO • Overall Vehicle • Canter TF • Welcome to Canter World • Go
T0780F • FUSO • Overall Vehicle • Canter TF BR 468 • Go
T1126F • FUSO • Overall Vehicle • Canter Eco • Hybrid High-Voltage Product Qualification • Run
T0768F • FUSO • Diesel Engines • Engine Model Series 4P10, Euro 5/6 from Facelift TF1 • Run
T1248E • Trucks • Overall Vehicle • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • e-Training • Go
T1330F • Vans, Trucks • Special Training • Run
T1138F • Vans • Overall Vehicle • Sprinter BR 906 • Go
T0980F • Vans • Overall Vehicle • Sprinter Model Series 909 • Go
T0426E • Vans • Citan • e-Training • Go
T1271F • Vans • Parameterizable Special Module • Model Series 447 • Run
T1094E • smart • Qualification Program • 2014, 2015 • smart Technician • Final Test • Go
<table>
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<td>Passenger Cars • 9-Speed Automatic Transmission (725.0) • e-Training • Run</td>
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### Chassis and Active Safety

<table>
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<tr>
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<td>187</td>
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<td>188</td>
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<tr>
<td>T1298Q</td>
<td>Trucks • Qualification Program • 2015 • Drivetrain System Technicians • Initial Test</td>
<td>194</td>
</tr>
<tr>
<td>T0142F</td>
<td>Trucks, Vans • Vehicle alignment • Go</td>
<td>195</td>
</tr>
<tr>
<td>T1042F</td>
<td>Trucks • Suspension Systems • Steering Systems and Chassis Level Control System (CLCS) • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run</td>
<td>196</td>
</tr>
<tr>
<td>T0135F</td>
<td>Trucks • Air Brake Systems • Go</td>
<td>197</td>
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<tr>
<td>T1043F</td>
<td>Trucks • Brake Systems • Air Brake Systems • Run</td>
<td>198</td>
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<tr>
<td>T0150F</td>
<td>Trucks • Telligent® Brake System BS2 • Run</td>
<td>199</td>
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<tr>
<td>T0149F</td>
<td>Trucks • Telligent® Level Control System (NR) • Run</td>
<td>200</td>
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<tr>
<td>T1263F</td>
<td>Vans, Trucks • Wheel Alignment • Sprinter Model Series 906, Actros, Antos Model Series 963, Arocs Model Series 964, Antos Model Series 967 • Go</td>
<td>201</td>
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<tr>
<td>T1295Q</td>
<td>Vans • Qualification Program • 2015 • Suspension System Technicians</td>
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<td>Vans • Qualification Program • 2015 • Suspension System Technician • Initial Test • Go</td>
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<td>T1294E</td>
<td>Vans • Qualification Program • 2015 • Suspension System Technician • Final Test • Go</td>
<td>204</td>
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<td>T1255F</td>
<td>Vans • Suspension • Model Series 447 New Features and Modifications • Run</td>
<td>205</td>
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<tr>
<td>T1237E</td>
<td>Vans • Driving assistance systems • e-Training • Go</td>
<td>206</td>
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<tr>
<td>T0762F</td>
<td>Trucks • Electronic Brake System (EBS) • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run</td>
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</tr>
<tr>
<td>T0152F</td>
<td>Trucks • Chassis/Suspension Systems • ASA (Additional Steering Axle) and CLCS (Chassis Level Control System) • Actros BR 963 • Run</td>
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Stand 11/2014
### Comfort/Convenience and Safety Systems

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<tr>
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<td>T1300Q</td>
<td>Passenger Cars • Qualification Program • 2015 • Comfort and Passive Safety • Run</td>
</tr>
<tr>
<td>T1291E</td>
<td>Passenger Cars • Qualification Program • 2015 • Comfort and Passive Safety System Technician • Final Test • Run</td>
</tr>
<tr>
<td>T1273E</td>
<td>Passenger Cars • Telematics • Comfort • Diagnosing Telematics and Comfort Systems • e-Training • Run</td>
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<tr>
<td>T0819F</td>
<td>Passenger Cars • Air Conditioning Systems and Auxiliary Heaters • Emphasis on the S-Class (W/V222), A-Class and B-Class (W176, W246) • Run</td>
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<tr>
<td>T0074E</td>
<td>Passenger Cars • Diagnosis of Comfort and Climate Control Systems • e-Training • Run</td>
</tr>
<tr>
<td>T0454F</td>
<td>Passenger Cars, Vans • New Drive Authorization System DAS 4 • Key Programming • Run</td>
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<td>T0274F</td>
<td>Passenger Cars • Passive Restraint, Knee, Airbag and Safety Systems • Run</td>
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<td>T1159F</td>
<td>Vans • Comfort and Climate Control Systems • V-Class (Model Series 447) • Run</td>
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### Telecommunications

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<td>Passenger Cars • Diagnosis of Telematics Systems • Fundamentals • e-Training • Run</td>
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<td>T1121F</td>
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<td>T0911F</td>
<td>Passenger Cars • Damage diagnosis • Accident repair • Run</td>
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<td>T1000F</td>
<td>Passenger Cars • Joining Technology • Run</td>
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<td>T1034F</td>
<td>Passenger Cars • Product Expertise for Service Advisors • Damage Diagnosis and Accident Repair • Run</td>
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<td>T0382F</td>
<td>smart • Accident Assessment Technology • Run</td>
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<td>T1274F</td>
<td>Vans • Accident Repair and Equipment • V-Class and Vito Model Series 447 • Run</td>
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**Paint**

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<td>Passenger Cars • Quality Post-Repair Refinishing • Mercedes-Benz-Specific Topics • Run</td>
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<td>Bodywork</td>
<td>Run</td>
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<td>Bodywork</td>
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<td>T1245E</td>
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<td>Bodywork</td>
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Chapter

Technical Training

Department

Comfort/Convenience and Safety Systems

Title

T1356Q • Trucks • Qualification Program • 2015 • Comfort and Safety System Technician

Course Number

T1356Q-AA

Target group

System Technician Comfort and Safety

Objectives

The participant qualifies as a Comfort and Passive Safety System Technician. Participants receive a certificate following completion of the qualification program.

Contents

The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1356P-AA • Trucks • Qualification Program • 2015 • Comfort and Safety System Technician • Competency Analysis

> T0092E-AA • Passenger Cars, Trucks, Vans • Air Conditioning Systems • e-Training • Go
> T1068F-AA • Trucks • Climate Control Systems • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run
> T1055F-AA • Trucks • Drive Authorization and Locking Systems • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run

> T1357E-AA • Trucks • Qualification Program • 2015 • Comfort and Safety System Technician • Final Test • Go

As soon as all your qualifications have been verified, you will receive your certificate.

Mandatory prerequisite

T1267E • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Training Depth | Method | Theorie 100%
---|---|---
Duration | 4,5 days (per 8 hours) |
<table>
<thead>
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<th>Technical Training</th>
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<tr>
<td>Department</td>
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<tr>
<td>Title</td>
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<td>Course Number</td>
<td>T1355E-AA</td>
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<tr>
<td>Target group</td>
<td>Maintenance Technician</td>
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<tr>
<td>Objectives</td>
<td>The participant's knowledge in the competence areas is determined.</td>
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<tr>
<td>Contents</td>
<td>This is an online test designed to assess basic theoretical knowledge in the following fields:</td>
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<td></td>
<td>&gt; Fundamentals of mechanical and electrical components</td>
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<tr>
<td></td>
<td>&gt; Vehicle systems/functions of engine/mechanical components and drive</td>
</tr>
<tr>
<td></td>
<td>&gt; Work processes</td>
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<tr>
<td></td>
<td>&gt; Mercedes-Benz service systems</td>
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<tr>
<td>Training Depth</td>
<td>Fly</td>
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<tr>
<td>Method</td>
<td>Theorie 100%, Practice0%</td>
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<tr>
<td>Note</td>
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## Technical Training

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<td><strong>Course Number</strong></td>
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<tr>
<td><strong>Target group</strong></td>
<td>System Technician, User IT Systems</td>
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<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
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<tr>
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<td>&gt; Describe the design and function of comfort and telematics systems</td>
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<td>&gt; Comfort, climate control, and telematics systems</td>
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<td>- operation</td>
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<td>- testing</td>
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<td>On-board electrical systems</td>
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<td>Networking</td>
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<td>Telematics systems</td>
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<td>Drive authorization system</td>
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## Technical Training

### Department
**Mercedes-Benz Service24h**

### Title
V0084F • Passenger Cars • Mercedes-Benz Service24h • Organization and Processing • Module 1 • Go

### Course Number
V0084F-AA

### Target group
Service24h Technician, Diagnosis Technician, System Technician

### Objectives
The participant:
- Can act independently and make business decisions
- Recognizes the advantages of the implemented hardware and software solutions and their interfaces
- Acquires proficiency in processes that pertain to his job
- Can use Mercedes-Benz service products
- Can describe the protection at the breakdown location to ensure the highest safety possible for the customer and himself
- Recognizes the importance that repairs be performed with sound technical skills

### Contents
- Repair order processing in breakdown cases
- Warranty and goodwill processing
- Parts supply/procurement
- Mobility products
- Mercedes-Benz service products
- Protection at the breakdown location

### Training Depth
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<tr>
<td>Objectives</td>
<td>The participant:  &gt; Knows what is important for breakdown cases regarding customer contact and communication and can use this  &gt; Can find customer-oriented problem solutions with the customer  &gt; Recognizes the high value of the topic Mercedes-Benz Service24h and the importance of his job</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Breakdown cases: A challenge for customers and Mercedes-Benz Service24h technicians – customer-oriented help  &gt; Breakdown case processing of Mercedes-Benz Service24h, &quot;the&quot; specialist in breakdown assistance is the customer’s focus in breakdown cases  &gt; The significance of motivation and commitment for service quality at Mercedes-Benz Service24h</td>
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# Technical Training

## Department
Mercedes-Benz Service24h

## Title
V0088P • Passenger Cars • Mercedes-Benz Service24h • Organization, Breakdown Case Processing and Customer-oriented Behavior at the Breakdown Location • Go

## Course Number
V0088P-AA

## Target group
Service24h Technician, Diagnosis Technician, System Technician

## Objectives
The participant:
- Can act independently and make business decisions
- Recognizes the advantages of the implemented hardware and software solutions and their interfaces
- Knows what is important for breakdown cases regarding customer contact and communication and can use this
- Acquires proficiency in processes that pertain to his job as a Service24h technician
- Can find customer-oriented problem solutions with the customer
- Can use Mercedes-Benz mobility and service products
- Can describe the protection at the breakdown location to ensure the highest safety possible for the customer and himself
- Understands the importance of solid technical expertise in performing repairs
- Recognizes the high value of the topic of Mercedes-Benz Service24h and the importance of his job

## Contents
Organization, processing and customer-oriented behavior in breakdown cases:
- The breakdown case: A challenge for both customers and Mercedes-Benz Service24h technicians – customer-oriented assistance
- Mercedes-Benz Service24h breakdown case processing; "the" specialist in breakdown assistance is the customer’s focus in breakdown cases
- The significance of motivation and commitment for service quality at Mercedes-Benz Service24h
- Repair order processing
- Warranty and goodwill processing
- Parts supply/procurement
- Mobility packages
- Mercedes-Benz service products
- Protection at the breakdown location

## Training Depth
Go

## Method
Theorie 100%

## Note
This package consists of the following modules: V0084F Passenger Cars • Mercedes-Benz Service24h • Organization and Processing • Module 1 • Go and V0085F Passenger Cars • Mercedes-Benz Service24h • Customer-Oriented Behavior in Breakdown Cases • Module 2 • Go

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<tr>
<td><strong>Target group</strong></td>
<td>Service24h Technician, Warranty Specialist, Service Receptionist, Service Advisor, Other, Salesperson, Workshop Foreman</td>
</tr>
</tbody>
</table>
| **Objectives** | The participant  
> Is familiar with the support services provided by Mercedes-Benz in breakdown cases  
> Is familiar with the different process steps and participants in breakdown cases  
> Can state the meaning of mobility services for customer loyalty |
| **Contents** | > Presentation of the service quality provided by Mercedes-Benz  
> Presentation of the process chain  
> Needs of customers in a breakdown situation  
> Process sequence with the involvement of CAC/CCC  
> Necessary process steps associated with professional Service24h  
> Integration of case-based breakdown/mobility services  
> Advantages for the dealer |
| **Training Depth** | Go |
| **Method** | Theorie 100% |
| **Duration** | 0,5 hours |
### Technical Training

#### Department
**Mercedes-Benz Service24h**

#### Title
V0086F • Vans, Trucks • Mercedes-Benz Service24h • Organization and Processing • Module 1 • Go

#### Course Number
V0086F-AA

#### Target group
Service24h Technician, Diagnosis Technician, System Technician

#### Objectives
The participant:
- Can act independently and make business decisions
- Recognizes the advantages of the implemented hardware and software solutions and their interfaces
- Acquires proficiency in processes that pertain to his job
- Can use Mercedes-Benz service products
- Can describe the protection at the breakdown location to ensure the highest safety possible for the customer and himself
- Recognizes the importance that repairs be performed with sound technical skills

#### Contents
- Repair order processing in breakdown cases
- Warranty and goodwill processing
- Parts supply/procurement
- Mobility products
- Mercedes-Benz service products
- Protection at the breakdown location

#### Training Depth
Go

#### Method
Theorie 100%

#### Duration
2,5 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Mercedes-Benz Service24h</td>
</tr>
<tr>
<td>Title</td>
<td>V0087F • Vans, Trucks • Mercedes-Benz Service24h • Customer-Oriented Behavior in Breakdown Cases • Module 2 • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>V0087F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Service24h Technician, Diagnosis Technician , System Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant:  
> Knows what is important for breakdown cases regarding customer contact and communication and can use this  
> Can find customer-oriented problem solutions with the customer  
> Recognizes the high value of the topic Mercedes-Benz Service24h and the importance of his job |
| Contents | > Breakdown cases: A challenge for customers and Mercedes-Benz Service24h technicians – customer-oriented help  
> Breakdown case processing of Mercedes-Benz Service24h, "the" specialist in breakdown assistance is the customer’s focus in breakdown cases  
> The significance of motivation and commitment for service quality at Mercedes-Benz Service24h |
| Training Depth | Go |
| Method | Theorie 100% |
| Duration | 2,5 days (per 8 hours) |
# Technical Training

## Department

**Mercedes-Benz Service24h**

## Title

V0089P • Vans, Trucks • Mercedes-Benz Service24h • Organization, Breakdown Case Processing and Customer-oriented Behavior at the Breakdown Location • Go

## Course Number

V0089P-AA

## Target group

Service24h Technician, Diagnosis Technician, System Technician

## Objectives

The participant:

- Can act independently and make business decisions
- Recognizes the advantages of the implemented hardware and software solutions and their interfaces
- Knows what is important for breakdown cases regarding customer contact and communication and can use this
- Acquires proficiency in processes that pertain to his job as a Service24h technician
- Can find customer-oriented problem solutions with the customer
- Can use Mercedes-Benz mobility and service products
- Can describe the protection at the breakdown location to ensure the highest safety possible for the customer and himself
- Understands the importance of solid technical expertise in performing repairs
- Recognizes the high value of the topic of Mercedes-Benz Service24h and the importance of his job

## Contents

Organization, processing and customer-oriented behavior in breakdown cases:

- The breakdown case: A challenge for both customers and Mercedes-Benz Service24h technicians – customer-oriented assistance
- Mercedes-Benz Service24h breakdown case processing; "the" specialist in breakdown assistance is the customer’s focus in breakdown cases
- The significance of motivation and commitment for service quality at Mercedes-Benz Service24h
- Repair order processing
- Warranty and goodwill processing
- Parts supply/procurement
- Mobility services
- Mercedes-Benz service products
- Protection at the breakdown location

## Training Depth

<table>
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<th>Go</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
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</table>

## Note

This package consists of the following modules: V0086F Vans, Trucks • Mercedes-Benz Service24h • Organization and Processing • Module 1 • Go and V0087F Vans, Trucks • Mercedes-Benz Service24h • Customer-Oriented Behavior in Breakdown Cases • Module 2 • Go

## Duration

5,0 days (per 8 hours)
## Technical Training

### Department
**Mercedes-Benz Service24h**

### Title
T1086F • Trucks • Mercedes-Benz Service24h • Damage Diagnosis and Repair • Actros, Arocs, Atego Euro VI (Model Series 963, 964, 967) • Level 1 • Run

<table>
<thead>
<tr>
<th>Course Number</th>
<th>T1086F-AA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target group</td>
<td>Service24h Technician</td>
</tr>
</tbody>
</table>

### Objectives
The participant can:
- Locate technical defects on the vehicle
- Make the decision as to whether the repair can be done on-site or in the service operation
- Perform on-site repairs to the extent that they are technically feasible
- Take responsibility for ensuring the service quality in Service24h through professional work and commitment
- Work within the Diagnosis Guidelines to communicate with the customer as required by the situation and to find customer-oriented solutions to problems

### Contents
- Vehicle model series (963, 964 and 967)
  - Vehicle diagnosis: electrical system, suspension, engine, transmission
  - Locating and correcting faults
  - Special considerations of on-site work

### Training Depth

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 20%, Practice 80%</th>
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</thead>
<tbody>
<tr>
<td>Run</td>
<td>Method</td>
<td>Theorie 20%, Practice 80%</td>
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</tbody>
</table>

### Duration
2,0 days (per 8 hours)
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<thead>
<tr>
<th><strong>Chapter</strong></th>
<th>Technical Training</th>
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<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Mercedes-Benz Service24h</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T1087F • Trucks • Mercedes-Benz Service24h • Damage Diagnosis and Repair • Supplementary Information for Major Assemblies and Special Vehicles • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T1087F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>Service24h Technician</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Locate technical defects on the vehicle</td>
</tr>
<tr>
<td></td>
<td>&gt; Make decisions as to whether the repair can be done on site or in the service operation</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform on-site repairs when technically feasible</td>
</tr>
<tr>
<td></td>
<td>&gt; Take responsibility for ensuring the service quality in Service24h through professional work and commitment</td>
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<tr>
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<td>&gt; Work within the Diagnosis Guidelines to communicate with the customer as required by the situation and to find customer-oriented solutions to problems</td>
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<tr>
<td><strong>Contents</strong></td>
<td>&gt; Vehicle diagnosis: electrical system, suspension, engine, transmission</td>
</tr>
<tr>
<td></td>
<td>&gt; Locating and correcting faults</td>
</tr>
<tr>
<td></td>
<td>&gt; Service-related information for vehicles and systems:</td>
</tr>
<tr>
<td></td>
<td>- Heavy-duty truck (SLT)</td>
</tr>
<tr>
<td></td>
<td>- PTOs</td>
</tr>
<tr>
<td></td>
<td>- Bodies, e.g. crane bodies</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Run</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>Theorie 20%, Practice 80%</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
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</table>
### Technical Training

#### Department
**Fundamentals**

#### Title
T0177F • Passenger Cars • XENTRY Kit & Star Diagnosis • Level I • Go

#### Course Number
T0177F-AA

#### Target group
Maintenance Technician

#### Objectives
The participant can:
- Operate Star Diagnosis, including the individual hardware and software components
- Independently perform the regular updates according to requirements
- Utilize Star Diagnosis on Mercedes-Benz vehicles to carry out simple inspections, program control units, read out the fault memory, and conduct troubleshooting
- Derive accurate diagnoses and conduct troubleshooting

#### Contents
- Individual Star Diagnosis components, hardware design
- User interface and software basics
- Update process and procedures
- Using the individual software programs HHT WIN (for end-of-life vehicles), Diagnosis Assistance System (DAS), Workshop Information System (WIS), Hermann Measurement Technology (HMS 990), Star Utilities and SDmedia
- Practical application of Star Diagnosis for simple troubleshooting tasks on current Mercedes-Benz passenger car model series

#### Optional prerequisite
Completion of the training course "T0219F • Passenger Cars • Electrical System • Level I • Go" or equivalent knowledge.

#### Training Depth
**Go**

#### Method
Theorie 50%, Practice 50%

#### Duration
2,0 days (per 8 hours)
## Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
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<tbody>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0178F • Passenger Cars • XENTRY Kit &amp; Star Diagnosis • Level II • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0178F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can&lt;br&gt;&gt; Determine and implement possible solutions to current application problems&lt;br&gt;&gt; Apply the basic process for diagnosis/troubleshooting on Mercedes-Benz car model series using the levels model&lt;br&gt;&gt; Use the individual Star Diagnosis programs during diagnosis and troubleshooting in a targeted manner&lt;br&gt;&gt; Operate the HMS 990 Measurement Technology (especially with the universal oscilloscope) in testing electrical components, sensors, actuators in an efficient and knowledgeable manner</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Exchange experiences, compare previous knowledge in the practical use of Star Diagnosis, including all individual components&lt;br&gt;&gt; Efficient use of Star Diagnosis programs during targeted diagnosis of electrical systems in current Mercedes-Benz car model series&lt;br&gt;&gt; Operation and use of HMS 990 Measurement Technology – especially with the use of the universal oscilloscope - on electrical components and systems&lt;br&gt;&gt; Fundamental procedures for troubleshooting and diagnosis</td>
</tr>
<tr>
<td>Optional prerequisite</td>
<td>The participant has completed basic training course &quot;T0177F • Passenger Cars • Star Diagnosis • Level I • Go&quot; and &quot;T0220F • Passenger Cars • Electrical System • Level II • Go&quot; or has equivalent knowledge of passenger car electrical systems.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td>Note</td>
<td>The content of this training is a part of cross-system competence training for repair technicians (system technicians).</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
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### Technical Training

<table>
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<tr>
<th><strong>Department</strong></th>
<th>Fundamentals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title</strong></td>
<td>T0219F • Passenger Cars • Electrical System • Level I • Go</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0219F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>Maintenance Technician</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Cite Ohm's law and apply it during troubleshooting</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the most important electrical components in Mercedes-Benz passenger cars and describe their functions</td>
</tr>
<tr>
<td></td>
<td>&gt; Carry out various measurements using the multimeter (current, voltage, resistance)</td>
</tr>
<tr>
<td></td>
<td>&gt; Independently conduct simple troubleshooting with the aid of the workshop literature and a multimeter</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>&gt; Conductivity of materials</td>
</tr>
<tr>
<td></td>
<td>&gt; Voltage types</td>
</tr>
<tr>
<td></td>
<td>&gt; Basic electrical variables</td>
</tr>
<tr>
<td></td>
<td>&gt; Ohm’s law</td>
</tr>
<tr>
<td></td>
<td>&gt; Electricity hazards</td>
</tr>
<tr>
<td></td>
<td>&gt; Circuit types and their properties</td>
</tr>
<tr>
<td></td>
<td>&gt; Terminal designations</td>
</tr>
<tr>
<td></td>
<td>&gt; Testing electrical components</td>
</tr>
<tr>
<td></td>
<td>&gt; Practical work</td>
</tr>
<tr>
<td><strong>Optional prerequisite</strong></td>
<td>The participant has successfully worked through CBTs &quot;Fundamentals of Electrics&quot; (order no. 1290 4747), &quot;Fundamentals of Electrical Components&quot; (1290 4748) and &quot;Wiring Diagrams&quot; (1290 4722).</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Go</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>Theorie 50%, Practice 50%</td>
</tr>
<tr>
<td><strong>Note</strong></td>
<td>This course is the first level of the Mercedes-Benz passenger car electrical system basic qualification series, consisting of three 2-day face-to-face training courses (see the qualification pathway for maintenance technicians) and several CBTs.</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>2,0 days (per 8 hours)</td>
</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
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</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>T0220F • Passenger Cars • Electrical System • Level II • Go</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>T0220F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Maintenance Technician</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Objectives</th>
<th>The participant can:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Carry out test, adjustment and repair work using digital multimeters, Star Diagnosis, including HMS990 Measurement Technology, oscilloscope and the Diagnosis Assistance System (DAS) on electrical systems in Mercedes-Benz passenger cars</td>
<td></td>
</tr>
<tr>
<td>&gt; Apply current Mercedes-Benz test and measuring devices, service literature and Workshop Information System (WIS) targeted at maintenance, diagnosis and repairs</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contents</th>
<th>&gt; Electrical formulas</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Control and regulation</td>
<td></td>
</tr>
<tr>
<td>&gt; Oscilloscope</td>
<td></td>
</tr>
<tr>
<td>&gt; Sensors and their signal forms</td>
<td></td>
</tr>
<tr>
<td>&gt; AC and DC voltage</td>
<td></td>
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<tr>
<td>&gt; Pulse width modulation</td>
<td></td>
</tr>
<tr>
<td>&gt; Diagnosis and networking</td>
<td></td>
</tr>
<tr>
<td>&gt; Fault types</td>
<td></td>
</tr>
<tr>
<td>&gt; Testing electrical components</td>
<td></td>
</tr>
<tr>
<td>&gt; Practical work</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optional prerequisite</th>
<th>The participant has successfully completed the CBTs &quot;Underlying Principles of Motor Vehicle Electrics/Electronics&quot; Part 3 (order no. 1290 4749) and &quot;Wiring Diagrams&quot; Part 4 (1290 4015). Previous participation in the following basic training courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; T0219F • Passenger Cars • Electrical System • Level I • Go</td>
<td></td>
</tr>
<tr>
<td>&gt; T0177F • Passenger Cars • Star Diagnosis • Level I • Go</td>
<td></td>
</tr>
<tr>
<td>or equivalent, well-founded technical knowledge.</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Go</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method</td>
<td>Theorie 50%, Practice 50%</td>
</tr>
</tbody>
</table>

| Note | This course is the second level of the Mercedes-Benz passenger car electrical system training, consisting of three 2-day face-to-face training courses (see the training for maintenance technicians) and several CBTs. |

<p>| Duration | 2,0 days (per 8 hours) |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
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<tbody>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T1315E • Passenger Cars • Qualification Program • 2015 • Cross-System Competence for System Technicians • Final Test • Go</td>
</tr>
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<td>Course Number</td>
<td>T1315E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant's knowledge is determined for the general fields of competence.</td>
</tr>
<tr>
<td>Contents</td>
<td>This is an online test designed to assess theoretical knowledge in the following fields:</td>
</tr>
<tr>
<td></td>
<td>&gt; On-board electrical systems and bus systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Diagnosis strategy</td>
</tr>
<tr>
<td></td>
<td>&gt; Star Diagnosis</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 100%, Practice0%</td>
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<tr>
<td>Note</td>
<td>The test is part of the qualification program for Mercedes-Benz system technicians.</td>
</tr>
<tr>
<td>Duration</td>
<td>0 hours</td>
</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
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<td>-------------------</td>
</tr>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>V0131E • Passenger Cars, smart • Qualification Program • Technical Fundamentals for Non-Technical Job Profiles • Initial Test</td>
</tr>
<tr>
<td>Course Number</td>
<td>V0131E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Customer Contact Consultant After-Sales, Other</td>
</tr>
</tbody>
</table>
| Objectives | The participant: 
> Is familiar with the basic structure of vehicles 
> Is familiar with the basic structure, functions, concepts and designs of the engine, transmission, suspension, electrical components and support systems 
> Can respond to simple technical questions from the customer during the service reception dialog for maintenance services 
> Can perform a quick test with XENTRY |
| Contents | > Overview of vehicle types, vehicle structure and components 
> Overview of body forms and features 
> Structure of the vehicle interior 
> Structure, functions, concepts and designs of the engine, transmission, suspension, electrical components and support systems 
> Quick test with XENTRY |
| Training Depth | Method | Theorie 100% |
| Note | This test confirms the basic technical knowledge of employees for non-technical job profiles. It serves, among other functions, as an entry requirement for Business Development Specialist. |
| Duration | 0 hours |
**Technical Training**

**Chapter**

**Technical Training**

**Department**

**Fundamentals**

**Title**

T0500F • smart • smart fortwo Introduction • Go

**Course Number**

T0500F-AA

**Target group**

Maintenance Technician, System Technician, Service Advisor

**Objectives**

The participant can

> Operate the vehicle and its systems
> Describe the functions/subfunctions
> Use EPC, WIS/ASRA specifically for smart
> Work on the vehicles using circuit diagrams and repair instructions
> Perform guided diagnostic work and repairs to the engine, clutch and transmission control
> Carry out the applications contained in the workshop processes

**Contents**

> Fundamentals of smart fortwo vehicle technology
> smart-specific applications in EPC/WIS/ASRA
> Carrying out diagnostic steps using Star Diagnosis
> Final test on all the material covered in the course

**Mandatory prerequisite**

T0320F • smart • After-Sales System Processes • Go
T0389F • smart • XENTRY Kit & Star Diagnosis • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**

<table>
<thead>
<tr>
<th>Go</th>
<th>Method</th>
<th>Theorie 30%, Practice70%</th>
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**Duration**

2,0 days (per 8 hours)
<table>
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<tr>
<th>Chapter</th>
<th>Technical Training</th>
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<tbody>
<tr>
<td>Department</td>
<td>Fundamentals</td>
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<tr>
<td>Title</td>
<td>T1091E • smart • Qualification Program • 2014, 2015 • Cross-System Competence for smart Technicians • Final Test • Go</td>
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<td>Course Number</td>
<td>T1091E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant's knowledge is determined for the general competence areas.</td>
</tr>
<tr>
<td>Contents</td>
<td>This is an online test designed to assess theoretical knowledge in the following fields:</td>
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<tr>
<td></td>
<td>&gt; Diagnosis strategy</td>
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<tr>
<td></td>
<td>&gt; Star Diagnosis</td>
</tr>
<tr>
<td></td>
<td>&gt; VeDoc</td>
</tr>
<tr>
<td></td>
<td>&gt; High-voltage systems</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 100%, Practice0%</td>
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<tr>
<td>Note</td>
<td>The test is part of the qualification program for smart Technicians.</td>
</tr>
<tr>
<td>Duration</td>
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<tr>
<td>Chapter</td>
<td>Technical Training</td>
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<td>----------</td>
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</tr>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0119F • Vans • Alternative Drives • Product Qualification of the Vito E-CELL • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0119F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe and take the required safety precautions for working on the Vito E-CELL</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the task, design, function and location of the high-voltage components</td>
</tr>
<tr>
<td></td>
<td>&gt; Properly carry out the preparatory procedures and service operations on the vehicle</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform diagnostic operations on the vehicle's high-voltage system</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Task, design and function of high-voltage components in the vehicle</td>
</tr>
<tr>
<td></td>
<td>&gt; Procedure for disabling the high-voltage system</td>
</tr>
<tr>
<td></td>
<td>&gt; Disable the power in the HV system</td>
</tr>
<tr>
<td></td>
<td>&gt; Repair procedure when disabling the high-voltage system (power disable event log, restart operations, etc.)</td>
</tr>
<tr>
<td></td>
<td>&gt; System networking and integration into the overall vehicle network</td>
</tr>
<tr>
<td></td>
<td>&gt; Diagnostic work on the vehicle</td>
</tr>
<tr>
<td></td>
<td>&gt; Repair information, e.g. installation/removal of components</td>
</tr>
<tr>
<td></td>
<td>&gt; Practical work on the vehicle and the system</td>
</tr>
<tr>
<td>Mandatory prerequisite</td>
<td>T0001F • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Qualification for Motor Vehicles • Go</td>
</tr>
<tr>
<td>Mandatory prerequisite</td>
<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 25%, Practice75%</td>
</tr>
<tr>
<td>Note</td>
<td>In order to successfully conclude the product qualification, you are required to successfully pass high-voltage awareness and qualification training. IMPORTANT! Persons with electronic implants (e.g. pacemakers) are not permitted to work on high-voltage systems. They may not do any practical work on the HV system during training and are not HV-certified after the conclusion of training.</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0165F • Vans • Vito and Viano Model Series 639 • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0165F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can apply basic knowledge about product, diagnosis and repair technology to the overall vehicle</td>
</tr>
</tbody>
</table>
| Contents | > Latest Vito and Viano Product Technology
> Design and function of
  - Engines
  - Transmissions
  - Chassis and vehicle dynamics systems
  - All-wheel drive
  - Electrical system
  - Instrumentation
  - Vehicle networking
  - Access and drive authorization systems
  - Safety and comfort systems
> Simple fault diagnosis and practical exercises on the vehicle with current diagnostic systems
> Maintenance and repair of various systems |
| Optional prerequisite | The participant has successfully completed training course "T0179F • Trucks, Vans • Star Diagnosis • Level I • Go", "P0019F • WIS/ASRA 3 for Workshop Specialists • Go" or has equivalent knowledge. |
| Training Depth | Go |
| Method | Theorie 60%, Practice40% |
| Duration | 4,0 days (per 8 hours) |

Note: This training is not a substitute for more advanced training courses. It forms the basis for advanced professional qualification.
## Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0687E • Vans, Trucks • Qualification Program 2014 • Maintenance Technician • Initial Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0687E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Maintenance Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>Identification of knowledge deficits and support in developing a training plan for the maintenance technician qualification program.</td>
</tr>
</tbody>
</table>
| Contents | The initial test is an online test designed to assess theoretical knowledge in the following fields:  
> WIS/ASRA system knowledge  
> Electronic Parts Catalog (EPC) system knowledge  
> Star Diagnosis  
> Mercedes-Benz product technology, maintenance and service  
> Maintenance service fundamentals |
| Training Depth | Go |
| Method | Theorie 100% |
| Duration | 0 hours |
## Technical Training

### Department
**Fundamentals**

### Title
T0881E • Vans, Trucks • Qualification Program 2014, 2015 • Maintenance Technician • Final Test • Go

### Course Number
T0881E-AA

### Target group
Maintenance Technician

### Objectives
The participant’s knowledge is determined for the fields of competence.

### Contents
This is an online test designed to assess theoretical knowledge in the following fields:

- WIS/ASRA system knowledge
- Electronic Parts Catalog (EPC) system knowledge
- Star Diagnosis
- Mercedes-Benz product technology, maintenance and service
- Maintenance service fundamentals

### Training Depth
<table>
<thead>
<tr>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
</table>

### Method
Go

### Note
The test is part of the qualification program for Mercedes-Benz Maintenance Technicians.

### Duration
0 hours
Chapter Technical Training

Department Fundamentals

Title T1293Q • Vans • Qualification Program • 2015 • Cross-System Competence for System Technicians

Course Number T1293Q-AA

Target group System Technician

Objectives The participant qualifies as a system technician. Participants receive a certificate following completion of the qualification program.

Contents The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1293P-AA • Vans • Qualification Program • 2015 • Cross-System Competence for System Technicians • Competency Analysis

> T0004F-AA • Passenger Cars, Trucks, Vans, smart • Diagnostic Strategy 1 • Go
> T0180F-AA • Trucks, Vans • XENTRY Kit & Star Diagnosis • Level II • Run
> T0795F-AA • Vans • System Networking and Instrumentation • Sprinter Facelift, Vito/Viano, Citan (Model Series 906, 639, 415) • Run

> T1265E-AA • Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go

As soon as all your qualifications have been verified, you will receive your certificate.

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>9.0 days (per 8 hours)</td>
<td></td>
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</table>

Stand 11/2014
**Chapter**

**Technical Training**

**Department**

Fundamentals

**Title**

T1264E • Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Initial Test • Go

**Course Number**

T1264E-AA

**Target group**

System Technician

**Objectives**

> The participant's knowledge is determined for the general competence area.
> An individual training plan is created for the competence area.
> The participant and supervisor are informed of the individual qualification path.

**Contents**

Theoretical test covering the following subjects:
> On-board electrical systems and bus systems
> Diagnosis strategy
> Star Diagnosis

**Training Depth**

Go

**Method**

Theorie 100%, Practice0%

**Note**

The test is part of the qualification program for Mercedes-Benz System Technicians.

**Duration**

0 hours
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td><strong>Fundamentals</strong></td>
</tr>
<tr>
<td>Title</td>
<td>T1265E • Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1265E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant's knowledge is determined for the competence areas.</td>
</tr>
</tbody>
</table>
| Contents         | This is an online test designed to assess theoretical knowledge in the following fields:  
> Systematic troubleshooting/diagnosis strategy  
> Star Diagnosis  
> On-board electrical system and networking |
<p>| Training Depth   | Go                 |
| Method           | Theorie 100%, Practice0% |
| Note             | The test is part of the qualification program for Mercedes-Benz System Technicians. |
| Duration         | 0 hours            |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0222F • Trucks, Vans • Electrical System • Level I • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0222F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Maintenance Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the basic electrical variables and their relationship to one another (Ohm’s law)</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the basic electrical components in the vehicle and describe their functions</td>
</tr>
<tr>
<td></td>
<td>&gt; Independently conduct measurements on the vehicle with the aid of the workshop literature and a multimeter</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Conductivity of materials</td>
</tr>
<tr>
<td></td>
<td>&gt; Voltage types</td>
</tr>
<tr>
<td></td>
<td>&gt; Basic electrical variables</td>
</tr>
<tr>
<td></td>
<td>&gt; Ohm’s law</td>
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<td></td>
<td>&gt; Electricity hazards</td>
</tr>
<tr>
<td></td>
<td>&gt; Circuit types and their properties</td>
</tr>
<tr>
<td></td>
<td>&gt; Terminal designations</td>
</tr>
<tr>
<td></td>
<td>&gt; Testing electrical components</td>
</tr>
<tr>
<td></td>
<td>&gt; Practical work</td>
</tr>
<tr>
<td>Optional prerequisite</td>
<td>Completion of the CBTs on &quot;Underlying Principles of Electrics, Part I and Part II&quot; and &quot;Wiring Diagrams Part I&quot;.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 50%, Practice50%</td>
</tr>
<tr>
<td>Note</td>
<td>This course is the first level of the Mercedes-Benz commercial vehicle electrical system basic qualification series, consisting of three 2-day face-to-face training courses (see the qualification pathway for maintenance technicians) and several CBTs.</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
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<tr>
<td>Chapter</td>
<td>Technical Training</td>
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</tr>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0223F • Trucks, Vans • Electrical System • Level II • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0223F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Maintenance Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can</td>
</tr>
<tr>
<td></td>
<td>&gt; Accurately apply current Mercedes-Benz test and measuring equipment, service literature and the Workshop Information System (WIS) for maintenance, diagnosis and repairs</td>
</tr>
<tr>
<td></td>
<td>&gt; Carry out test, adjustment and repair work using digital multimeters, Star Diagnosis, including HMS990 Measurement Technology, oscilloscopes and the Diagnosis Assistance System (DAS) on electrical systems in commercial vehicles</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Electrical formulas</td>
</tr>
<tr>
<td></td>
<td>&gt; Control and regulation</td>
</tr>
<tr>
<td></td>
<td>&gt; Oscilloscope</td>
</tr>
<tr>
<td></td>
<td>&gt; Sensors and their signal forms</td>
</tr>
<tr>
<td></td>
<td>&gt; AC and DC voltage</td>
</tr>
<tr>
<td></td>
<td>&gt; Pulse width modulation</td>
</tr>
<tr>
<td></td>
<td>&gt; Diagnosis and networking</td>
</tr>
<tr>
<td></td>
<td>&gt; Fault types</td>
</tr>
<tr>
<td></td>
<td>&gt; Testing electrical components</td>
</tr>
<tr>
<td></td>
<td>&gt; Practical work</td>
</tr>
<tr>
<td>Optional prerequisite</td>
<td>The participant has worked through the CBTs &quot;Passenger Car Wiring Diagrams&quot; (order no. 1290 4749) &quot;Electrical Machines&quot; (order no. 1290 4015) and attended basic training course &quot;T0222F • Trucks, Vans • Electrical System • Level I • Go&quot;.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 50%, Practice50%</td>
</tr>
<tr>
<td>Note</td>
<td>This course is the second level of the Mercedes-Benz commercial-vehicle electrical system training, consisting of three 2-day face-to-face training courses (see the training for maintenance technicians) and several CBTs.</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

## Department
**Fundamentals**

## Title
**T0224F • Trucks, Vans • Electrical System • Level III • Go**

## Course Number
T0224F-AA

## Target group
Maintenance Technician

## Objectives
The participant can:
- Independently select and confidently use the right measurement and testing equipment for the current fault
- Describe the design and function of the various sensors and actuators and name and apply the corresponding measuring and testing options
- Reliably recognize and eliminate resistance issues and disconnections in electrical lines and connections
- Perform results-oriented troubleshooting on electrical and electronic components

## Contents
- Checking and laying out electrical lines and connections
- Adapting existing vehicle systems to fit individual customer requests
- Analog and digital sensors and actuators and their areas of application
- Inputs and outputs of various control units and their testing and measurement options
- Design and function of electrical and electronic circuits and their use in motor vehicles
- Conversion of analog signals to digital signals
- Basic functions and types of data transfer
- Practical work

## Optional prerequisite
The participant has worked through the CBTs "The Fundamentals of Sensors" (order no. 1290 4738 ) and "Sensors in Practice" (1290 4739) and attended the following basic training courses:
- T0222F • Trucks, Vans • Electrical System • Level I • Go
- T0223F • Trucks, Vans • Electrical System • Level II • Go or has equivalent, well-founded technical knowledge

## Training Depth
<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 50%, Practice50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go</td>
<td></td>
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</tbody>
</table>

## Note
This course is the third level of the Mercedes-Benz commercial vehicle electrical system basic qualification series, consisting of three 2-day face-to-face training courses (see the qualification pathway for maintenance technicians) and several CBTs.

## Duration
2,0 days (per 8 hours)
## Mercedes-Benz Global Training

### Chapter

#### Technical Training

<table>
<thead>
<tr>
<th>Department</th>
<th>Fundamentals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>T0212F • Trucks, Vans • Mercedes-Benz Product Technology • Maintenance and Service • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0212F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Maintenance Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the various Mercedes-Benz commercial vehicle model series and state the respective major assemblies and systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Name and operate the systems required for carrying out maintenance and repair work</td>
</tr>
<tr>
<td></td>
<td>&gt; Carry out the different maintenance work according to the maintenance procedures</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Overview of Mercedes-Benz commercial vehicle models</td>
</tr>
<tr>
<td></td>
<td>&gt; Innovations</td>
</tr>
<tr>
<td></td>
<td>&gt; Vehicle documentation and vehicle data card</td>
</tr>
<tr>
<td></td>
<td>&gt; Design group overview and logic</td>
</tr>
<tr>
<td></td>
<td>&gt; Symbols in the documentation</td>
</tr>
<tr>
<td></td>
<td>&gt; Importance and use of the Specifications for Operating Fluids</td>
</tr>
<tr>
<td></td>
<td>&gt; Work units and texts</td>
</tr>
<tr>
<td></td>
<td>&gt; Need for maintenance</td>
</tr>
<tr>
<td></td>
<td>&gt; Design and function of ASSYST truck and van maintenance systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Electronic brake system (EBS)</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 60%, Practice 40%</td>
</tr>
<tr>
<td>Note</td>
<td>The practical section specifically addresses the design and the operation/function of the individual maintenance systems and items. The content of this course is a prerequisite for reliably and effectively performing maintenance work on Mercedes-Benz commercial vehicles as a maintenance technician, with the aid of the applicable service information.</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
**Chapter**

**Technical Training**

**Department**  
Fundamentals

**Title**  
T1057F • Trucks • Overall Vehicle • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run

**Course Number**  
T1057F-AA

**Target group**  
System Technician

**Objectives**  
The participant can apply knowledge of the latest product, diagnostic and repair technologies while performing basic maintenance, test and repair work.

**Contents**  
> General product technology
> Networking of electrical systems
> On-board electrical system and electrical systems
> General maintenance and repair work
> Diagnosing and remedying minor malfunctions using the service literature and current diagnostic systems

**Optional prerequisite**  
The participant has successfully completed the training course "T0179F • Trucks, Vans • Star Diagnosis • Level I • Go" and training course "P0019F • WIS/ASRA 3 for Workshop Specialists • Go" or has equivalent knowledge.

**Mandatory prerequisite**  
T0095E • Trucks • Actros BR 963 • e-Training • Go  
T0107E • Trucks • Overall Vehicle • The New Antos • e-Training • Go  
T0108E • Trucks • Atego Euro VI Standard • e-Training • Go  
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**  
Run  
Method  
Theorie 50%, Practice 50%

**Duration**  
3,0 days (per 8 hours)
## Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
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<tbody>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0179F • Trucks, Vans • XENTRY Kit &amp; Star Diagnosis • Level I • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0179F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Maintenance Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant can  
> Operate Star Diagnosis, including the individual components of the hardware and software  
> Independently implement the regular updates according to requirements  
> Use Star Diagnosis on Mercedes-Benz commercial vehicles for simple tests, control unit parameterization, reading out fault memory and troubleshooting |
| Contents | > Individual Star Diagnosis components, hardware design  
> User interface and fundamentals for all Star Diagnosis software programs  
> Update process and procedures, installation options  
> Use of individual programs "Diagnosis Assistance System (DAS)" and "StarUtilities"  
> Practical application of Star Diagnosis for carrying out simple troubleshooting on current Mercedes-Benz commercial vehicles |
| Optional prerequisite | Attended training course "T0222F • Trucks, Vans • Electrical System • Level I • Go", or has equivalent knowledge. |
| Training Depth | Go |
| Method | Theorie 50%, Practice 50% |
| Duration | 2,0 days (per 8 hours) |
# Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0180F • Trucks, Vans • XENTRY Kit &amp; Star Diagnosis • Level II • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0180F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can</td>
</tr>
<tr>
<td></td>
<td>&gt; Determine and implement possible solutions to current application problems</td>
</tr>
<tr>
<td></td>
<td>&gt; Apply the basic process for diagnosis/troubleshooting and for SCN coding</td>
</tr>
<tr>
<td></td>
<td>&gt; Use the individual Star Diagnosis programs DAS and HMS 990 Measurement Technology to conduct efficient diagnosis/troubleshooting in a well-planned, targeted manner</td>
</tr>
<tr>
<td></td>
<td>&gt; Operate the HMS 990 Measurement Technology (especially with the universal oscilloscope) in testing electrical components, sensors, actuators in an efficient and knowledgeable manner.</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Exchange experiences, compare previous knowledge in the practical use of Star Diagnosis, including all individual components</td>
</tr>
<tr>
<td></td>
<td>&gt; Efficient use of networked Star Diagnosis with the DAS, HMS 990, SD Media programs in well-planned, targeted diagnosis on current CV model series</td>
</tr>
<tr>
<td></td>
<td>&gt; Operation and use of HMS 990 Measurement Technology – especially the universal oscilloscope – for performing measurements on components, sensors and actuators in electrical systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Fundamental procedures for troubleshooting and diagnosis</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td>Note</td>
<td>The training is a part of cross-system competence training for repair and system technicians</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

## Department
**Fundamentals**

## Title
T0146F • Trucks • Actros Road Vehicle • Go

## Course Number
T0146F-AA

## Target group
System Technician

## Objectives
The participant can:
- Explain the maintenance and operation of the Actros and describe the most important new features
- Apply knowledge of the latest product, diagnostic and repair technology as part of simple maintenance, test and repair operations on the drivetrain and chassis

## Contents
- General Actros product technology
- Design and function:
  - KontAct vehicle networking
  - Commercial vehicle electrical systems
  - Telligent® maintenance system
  - Telligent® brake system 2
  - Telligent® level control
  - Telligent® gearshift
  - Current transmission model series
  - Model series 500 engines
- Using the service literature
- Operating the on-board diagnostic system
- Adjusting the steering
- PowerShift
- General maintenance and repair work
- Diagnosing and remedying minor malfunctions using the service literature and current diagnostic systems

## Optional prerequisite
The participant has successfully completed training course "T0179F • Trucks, Vans • Star Diagnosis • Level I • Go" and training course "P0019F • WIS/ASRA 3 for Workshop Specialists • Go" or has equivalent knowledge.

## Training Depth
Go

## Method
Theorie 50%, Practice 50%

## Duration
4,0 days (per 8 hours)
### Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
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<tr>
<th>Department</th>
<th>Fundamentals</th>
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<table>
<thead>
<tr>
<th>Title</th>
<th>T0108E • Trucks • Atego Euro VI Standard • e-Training • Go</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>T0108E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the innovations made to the most important technical systems, components and major assemblies</td>
</tr>
<tr>
<td></td>
<td>&gt; Communicate innovations in a customer-friendly manner</td>
</tr>
<tr>
<td>Contents</td>
<td>Description of the individual systems and an overview of the arrangement, design and basic functions of the technical innovations, including:</td>
</tr>
<tr>
<td></td>
<td>&gt; Engines</td>
</tr>
<tr>
<td></td>
<td>&gt; Exhaust aftertreatment</td>
</tr>
<tr>
<td></td>
<td>&gt; Gearshift equipment and clutch systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Vehicle electrical components, on-board electrical system and networking</td>
</tr>
<tr>
<td></td>
<td>&gt; Comfort and passive safety systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Telecommunications</td>
</tr>
<tr>
<td></td>
<td>&gt; Retrofitting and accessories</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 100%, Practice0%</td>
</tr>
<tr>
<td>Note</td>
<td>The e-Training is used as preparation for the training course &quot;T0798F • Trucks • Atego Euro VI Standard and Arocs Model Series 964 • Go&quot;.</td>
</tr>
<tr>
<td>Duration</td>
<td>1,5 hours</td>
</tr>
</tbody>
</table>

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Stand 11/2014
**Technical Training**

<table>
<thead>
<tr>
<th>Department</th>
<th>Fundamentals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>T0141F • Trucks • Off-Road • Zetros • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0141F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can apply knowledge of the latest product, diagnostic and repair technologies while performing basic maintenance, test and repair work.</td>
</tr>
<tr>
<td>Contents</td>
<td>Zetros general product technology</td>
</tr>
<tr>
<td></td>
<td>&gt; Basic design and function:</td>
</tr>
<tr>
<td></td>
<td>- ABS brake system</td>
</tr>
<tr>
<td></td>
<td>- Model series 926 engine</td>
</tr>
<tr>
<td></td>
<td>- Automatic transmission</td>
</tr>
<tr>
<td></td>
<td>- Transmission G131</td>
</tr>
<tr>
<td></td>
<td>- Transfer case VG 1700</td>
</tr>
<tr>
<td></td>
<td>- Tire pressure control system</td>
</tr>
<tr>
<td></td>
<td>&gt; Electrical system for the non-civilian sector</td>
</tr>
<tr>
<td></td>
<td>&gt; General maintenance and repair work</td>
</tr>
<tr>
<td></td>
<td>&gt; Diagnosing and remedying minor malfunctions using the service literature and current diagnostic systems</td>
</tr>
<tr>
<td>Optional prerequisite</td>
<td>The participant has successfully completed basic training course &quot;T0146F • Trucks • Axor2 Road Vehicle • Go&quot; or &quot;T0140F • Trucks • Atego2 Distributor Vehicle • Go&quot; or has equivalent knowledge.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 50%, Practice 50%</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
</tr>
<tr>
<td>---------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0095E • Trucks • Actros BR 963 • e-Training • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0095E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
</tbody>
</table>

**Objectives**
The participant can:
- Describe the innovations made to the most important technical systems, components and major assemblies
- Communicate innovations in a customer-focused manner

**Contents**
Description of the individual systems and an overview of the arrangement, design and basic functions of the technical innovations, including:
- Engines
- Exhaust aftertreatment
- Gearshift equipment and clutch systems
- Vehicle electrical components, on-board electrical system and networking
- Comfort and passive safety systems
- Telecommunications
- Retrofittings and accessories

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note**
This e-training is intended for preparation for the overall vehicle training course for the new Actros for long distances

**Duration**
2,0 hours
## Technical Training

### Department
**Fundamentals**

### Title
T0107E • Trucks • Overall Vehicle • The New Antos • e-Training • Go

### Course Number
T0107E-AA

### Target group
System Technician

### Objectives
The participant can:
- Describe the innovations made to the most important technical systems, components and major assemblies
- Communicate innovations in a customer-friendly manner

### Contents
Description of the individual systems and an overview of the arrangement, design and basic functions of the technical innovations, including:
- Engines
- Exhaust aftertreatment
- Gearshift equipment and clutch systems
- Vehicle electrical components, on-board electrical system and networking
- Comfort and passive safety systems
- Telecommunications
- Retrofitting and accessories

### Training Depth
<table>
<thead>
<tr>
<th>Go</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>Practice 0%</td>
</tr>
</tbody>
</table>

### Note
The e-Training prepares the participant for the training course "T0415F • Trucks • The New Antos • Go"

### Duration
1,5 hours
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Department</th>
<th>Fundamentals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>T0945F • Trucks • Overall Vehicle • Econic Model Series 956 • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0945F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>Participants can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Operate the new systems in the vehicle and explain how they work</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform initial repair work and adjustment operations on the new systems in accordance with the manufacturer’s specifications</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform initial diagnostic steps required to repair the systems</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Functions of new systems in the areas of drivetrain, comfort, drive authorization, safety and suspension</td>
</tr>
<tr>
<td></td>
<td>&gt; Operation of systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Maintenance and repair</td>
</tr>
<tr>
<td></td>
<td>&gt; Diagnosis/Xentry</td>
</tr>
<tr>
<td></td>
<td>&gt; Special considerations for service</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 40%, Practice 60%</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T0763F • Trucks • Econic model refinement • Market launch of Euro VI standard and new engine series • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0763F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:  &gt; Name the measures for model refinement  &gt; Describe the modifications to the cab and equipment  &gt; Describe the modifications to the suspension and brakes  &gt; Describe the modifications to the drivetrain  &gt; Describe the design and function of the new engine series  &gt; Describe the design and function of the exhaust aftertreatment for fulfilling the Euro VI standard</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Modifications to the cab, equipment, suspension, brakes and drivetrain  &gt; Design and function of the new engine series  &gt; Design and function of the exhaust aftertreatment for fulfilling the Euro VI standard  &gt; Use of Star Diagnosis in regard to modifications to the vehicle</td>
</tr>
<tr>
<td>Optional prerequisite</td>
<td>The participant has successfully completed training course &quot;T0179F • Trucks, Vans • Star Diagnosis • Level I • Go&quot; and training course &quot;P0019F • WIS/ASRA 3 for Workshop Specialists • Go&quot; or has equivalent knowledge.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 40%, Practice 60%</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

## Fundamentals

<table>
<thead>
<tr>
<th>Chapter: Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department: Fundamentals</td>
</tr>
<tr>
<td>Title:</td>
</tr>
<tr>
<td>Course Number: T1058F-AA</td>
</tr>
<tr>
<td>Target group: System Technician</td>
</tr>
</tbody>
</table>

### Objectives

- The participant can:
  - Operate the new systems in the vehicles and explain how they work
  - Perform initial repair work on the new systems in accordance with the manufacturer’s specifications
  - Perform initial diagnostic steps required to repair the systems

### Contents

- Additional systems of the heavy-duty truck
- Operation of these systems
- Maintenance and repair
- Diagnosis/Xentry
- Special considerations for service

### Training Depth

- Go Method
  - Theorie 20%, Practice 80%

### Duration

- 1 day (per 8 hours)
Chapter Technical Training

Department Fundamentals

Title T1261Q • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technicians

Course Number T1261Q-AA

Target group System Technician

Objectives The participant qualifies as a system technician. Participants receive a certificate following completion of the qualification program.

Contents The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1261P-AA • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technicians • Competency Analysis

> T0004F-AA • Passenger Cars, Trucks, Vans, smart • Diagnostic Strategy 1 • Go

> T0180F-AA • Trucks, Vans • XENTRY Kit & Star Diagnosis • Level II • Run

> T1028F-AA • Trucks • System Networking and Instrumentation • Actros, Antos, Arocs, Atego Euro VI (Model Series 963, 964, 967) • Run

> T1267E-AA • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go

As soon as all your qualifications have been verified, you will receive your certificate.

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>11,0 days (per 8 hours)</td>
<td></td>
</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td>Department</td>
<td><strong>Fundamentals</strong></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>T1266E • Trucks • Qualification Program • 2014 • Cross-System Competence for System Technicians • Initial Test • Go</td>
<td></td>
</tr>
<tr>
<td>Course Number</td>
<td>T1266E-AA</td>
<td></td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
<td></td>
</tr>
</tbody>
</table>
| Objectives | > The participant's knowledge is determined for the general competence area.  
> An individual training plan is created for the competence area.  
> The participant and supervisor are informed of the individual qualification path. |
| Contents | Theoretical test covering the following subjects:  
> On-board electrical systems and bus systems  
> Diagnosis strategy  
> Star Diagnosis |
<p>| Training Depth | Go |
| Method | Theorie 100%, Practice0% |
| Note | The test is part of the qualification program for Mercedes-Benz System Technicians. |
| Duration | 0 hours |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Fundamentals</td>
</tr>
<tr>
<td>Title</td>
<td>T1267E • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1267E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant's knowledge is determined for the general competence areas.</td>
</tr>
</tbody>
</table>
| Contents | This is an online test designed to assess theoretical knowledge in the following fields:  
> On-board electrical systems and bus systems  
> Diagnosis strategy  
> Star Diagnosis |
| Training Depth | Go |
| Method | Theorie 100%, Practice0% |
| Note | The test is part of the qualification program for Mercedes-Benz System Technicians. |
| Duration | 0 hours |
# Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Maintenance</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0216F • Passenger Cars • Maintenance Service • Go</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0216F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>Maintenance Technician</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Go</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>1 day (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

## Chapter

### Technical Training

### Department

**Maintenance**

### Title

T1342Q • Passenger Cars • Qualification Program • 2015 • Maintenance Technicians

### Course Number

T1342Q-AA

### Target group

Maintenance Technician

### Objectives

The participant qualifies as a Maintenance Technician. Participants receive a certificate following completion of the qualification program.

### Contents

The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

- T1342P-AA • Passenger Cars • Qualification Program • 2015 • Maintenance Technicians • Competency Analysis
- P0019F-AA • Passenger Cars, Vans, Trucks • WIS/ASRA for Service and Parts • Go
- T0213F-AA • Passenger Cars • Mercedes-Benz Product Technology • Maintenance and Service • Go
- T0216F-AA • Passenger Cars • Maintenance Service • Go
- T0875E-AA • Passenger Cars • Qualification Program 2014 • Maintenance Technician • Final Test • Fly

As soon as all your qualifications have been verified, you will receive your certificate.

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>4,0 days (per 8 hours)</td>
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</tbody>
</table>
# Technical Training

## Department
Maintenance

## Title
T0694F • Passenger Cars • Maintenance Service • New types • New Features and Modifications • Run

## Course Number
T0694F-AA

## Target group
Maintenance Technician

## Objectives
The participant is familiar with:
- The procedure for reliably performing maintenance services on new car models
- The scope of maintenance for model changes and new models
- The latest tools and aids for maintenance and the way they are used

## Contents
- Service targets (zero-error target)
- Tools and shop aids
- New features and modifications to the maintenance procedures
- Special features in new vehicle models (modifications/new features)
- Service measures and their processing
- Importance of external appearance (what does the customer see?)
- Maintenance services and their importance for customer satisfaction
- Importance of workshop tests
- Workshop quality handbook

## Optional prerequisite
Participation in a maintenance service basic training (Go) within the past 2 years or a maintenance service advanced training (Run) within the past calendar year.

## Training Depth
Run  | Method  | Theorie 100%

## Note
In accordance with the specifications in the Mercedes-Benz maintenance service training manual, employees that perform maintenance services must participate in a basic maintenance service training (Go) every three years and a maintenance service advanced training (Run) for new features/modifications and new models every year.

## Duration
1 day (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Maintenance</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0213F • Passenger Cars • Mercedes-Benz Product Technology • Maintenance and Service • Go</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0213F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>Maintenance Technician</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the different vehicles, major assemblies and systems and their correlation with model series and vehicle models</td>
</tr>
<tr>
<td></td>
<td>&gt; Operate the necessary systems for carrying out maintenance and repair work on passenger cars, such as ASSYST and ASSYST Plus</td>
</tr>
<tr>
<td></td>
<td>&gt; Carry out different maintenance operations according to the maintenance procedures</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>Basic information on the following topics:</td>
</tr>
<tr>
<td></td>
<td>&gt; Overview of Mercedes-Benz passenger car models</td>
</tr>
<tr>
<td></td>
<td>&gt; Innovations</td>
</tr>
<tr>
<td></td>
<td>&gt; Vehicle documentation and vehicle data card</td>
</tr>
<tr>
<td></td>
<td>&gt; Design group overview and logic</td>
</tr>
<tr>
<td></td>
<td>&gt; Symbols in the documentation</td>
</tr>
<tr>
<td></td>
<td>&gt; Importance and use of the Specifications for Operating Fluids</td>
</tr>
<tr>
<td></td>
<td>&gt; Work units and texts</td>
</tr>
<tr>
<td></td>
<td>&gt; Need for maintenance</td>
</tr>
<tr>
<td></td>
<td>&gt; Design and function of maintenance systems (ASSYST and ASSYST Plus)</td>
</tr>
<tr>
<td></td>
<td>&gt; Systems that need particular attention, such as:</td>
</tr>
<tr>
<td></td>
<td>- Drive authorization</td>
</tr>
<tr>
<td></td>
<td>- Airmatic</td>
</tr>
<tr>
<td></td>
<td>- Automatic transmission</td>
</tr>
<tr>
<td></td>
<td>- Sensotronic Brake Control SBC™</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Go</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>Theorie 60%, Practice 40%</td>
</tr>
<tr>
<td><strong>Note</strong></td>
<td>This training course will convey the information required to perform maintenance and repair work on Mercedes-Benz passenger cars. The design and the operation/function of the individual maintenance systems and items are specifically worked on in practical work.</td>
</tr>
<tr>
<td></td>
<td>The content of this course is required for maintenance technicians to safely and effectively perform maintenance work on Mercedes-Benz passenger cars with the help of valid service information.</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
### Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Training</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>T0500F • smart • smart fortwo Introduction • Go</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>T0500F-AA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Target group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Technician, System Technician, Service Advisor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>The participant can</td>
</tr>
<tr>
<td>&gt; Operate the vehicle and its systems</td>
</tr>
<tr>
<td>&gt; Describe the functions/subfunctions</td>
</tr>
<tr>
<td>&gt; Use EPC, WIS/ASRA specifically for smart</td>
</tr>
<tr>
<td>&gt; Work on the vehicles using circuit diagrams and repair instructions</td>
</tr>
<tr>
<td>&gt; Perform guided diagnostic work and repairs to the engine, clutch and transmission control</td>
</tr>
<tr>
<td>&gt; Carry out the applications contained in the workshop processes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Fundamentals of smart fortwo vehicle technology</td>
</tr>
<tr>
<td>&gt; smart-specific applications in EPC/WIS/ASRA</td>
</tr>
<tr>
<td>&gt; Carrying out diagnostic steps using Star Diagnosis</td>
</tr>
<tr>
<td>&gt; Final test on all the material covered in the course</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mandatory prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>T0320F • smart • After-Sales System Processes • Go</td>
</tr>
<tr>
<td>T0389F • smart • XENTRY Kit &amp; Star Diagnosis • Go</td>
</tr>
</tbody>
</table>

This training/test has to be booked, before you are authorized to book the main training. You´ll find a detailed description about the training, using the training code.

<table>
<thead>
<tr>
<th>Training Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theorie 30%, Practice 70%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

## On-board Electrical System, Bus System

### Title
T0004F • Passenger Cars, Trucks, Vans, smart • Diagnostic Strategy I • Go

### Course Number
T0004F-AA

### Target group
System Technician, FUSO-Technician

### Objectives
The participant can:
- Describe the concept and purpose of a diagnostic strategy
- Develop an all-categories diagnostic strategy based on the levels model
- Apply the current industry-specific diagnoses and diagnostic aids and evaluate their results and develop them further
- Describe the various fault types and their effects
- Implement his daily work in a more structured and goal-oriented manner

### Contents
- Diagnoses according to the levels model
- Faults and fault types
- Application of the industry-specific diagnostic aids (XENTRY, DAS,...)
- Practical work regarding diagnoses with and without fault codes
- Evaluating the on-board diagnosis

### Optional prerequisite
The participant has good knowledge of Star Diagnosis as well as HMS990 or has completed training course "HMS990 T0178F • Passenger Cars • Star Diagnosis Level II • Run" or "T0180F • Trucks, Vans • Star Diagnosis Level II • Run". The two CBTs "Troubleshooting, Successful with Understanding and all of the Senses" T0635E (W4754) and "Diagnostic Strategy, Future Level Model" T0673E (W4799) can be used as preparation.

### Training Depth
Go

### Method
Theorie 30%, Practice 70%

### Duration
4,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>On-board Electrical System, Bus System</td>
</tr>
<tr>
<td>Title</td>
<td>T0514F • Passenger Cars • On-Board Electrical and Bus Systems • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0514F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform a specific diagnosis in the current on-board electrical systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Successfully diagnose various systems in networking</td>
</tr>
<tr>
<td></td>
<td>&gt; Repair considering EMC measures</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Design, function of on-board electrical system and energy management</td>
</tr>
<tr>
<td></td>
<td>- Information evaluation of the intelligent battery sensor</td>
</tr>
<tr>
<td></td>
<td>- ECO start/stop function</td>
</tr>
<tr>
<td></td>
<td>&gt; Current data bus systems in passenger cars</td>
</tr>
<tr>
<td></td>
<td>- Topology of vehicle networking</td>
</tr>
<tr>
<td></td>
<td>- Functions and data transfers in networking</td>
</tr>
<tr>
<td></td>
<td>&gt; Control unit networking</td>
</tr>
<tr>
<td></td>
<td>- Control unit coding and software programming</td>
</tr>
<tr>
<td></td>
<td>- Electromagnetic compatibility (EMC)</td>
</tr>
<tr>
<td></td>
<td>&gt; Diagnostic work with troubleshooting on current model series</td>
</tr>
<tr>
<td>Mandatory prerequisite</td>
<td>T0445E • Passenger Cars • Fundamentals of SDconnect with On-Board Electrical and Bus Systems • e-Training • Go</td>
</tr>
<tr>
<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
<td></td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 20%, Practice 80%</td>
</tr>
<tr>
<td>Note</td>
<td>The participant is proficient in the use of Star Diagnosis and Hermann Measurement Technology. He/she has a good knowledge of vehicle electronics and electrical components.</td>
</tr>
<tr>
<td></td>
<td>Participants can test and refresh their knowledge using the CBT programs &quot;Principles of Motor Vehicle Electronics&quot; parts 1-3 (order nos. 12904757, 12904758, 12904759) and &quot;Sensors and Actuators&quot; (12904012).</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

## On-board Electrical System, Bus System

<table>
<thead>
<tr>
<th>Title</th>
<th>T0788F • Passenger Cars • Wiring Harness Repair • Go</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>T0788F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Comfort and Safety</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Analyze wiring harness damage and determine the required repair method</td>
</tr>
<tr>
<td></td>
<td>&gt; Search for necessary information in EPC and WIS</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform common wiring harness repairs with the tools</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Damage diagnosis and repair procedure for wiring harnesses</td>
</tr>
<tr>
<td></td>
<td>&gt; Working with electrical wiring diagrams and figures in WIS and EPC</td>
</tr>
<tr>
<td></td>
<td>&gt; Identifying part numbers in EPC and WIS</td>
</tr>
<tr>
<td></td>
<td>&gt; Notes for qualified queries in the TIPS case module</td>
</tr>
<tr>
<td></td>
<td>&gt; Using the repair tools</td>
</tr>
<tr>
<td></td>
<td>&gt; Performing practical repairs</td>
</tr>
<tr>
<td>Optional prerequisite</td>
<td>Participants can test and refresh their knowledge using the e-Training &quot;T0445E • Passenger Cars • Fundamentals of SDconnect with On-Board Electrical and Bus Systems • e-Training • Go&quot;.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 25%, Practice 75%</td>
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<tr>
<td>Duration</td>
<td>1 day (per 8 hours)</td>
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</tbody>
</table>
### Technical Training

**Department**

On-board Electrical System, Bus System

**Title**

T0795F • Vans • System Networking and Instrumentation • Sprinter Facelift, Vito/Viano, Citan (Model Series 906, 639, 415) • Run

**Course Number**

T0795F-AA

**Target group**

System Technician

**Objectives**

The participant can:

- Describe the design and new features of the on-board electrical systems and the current CAN technology and bus systems, and also describe their basic functions
- Describe all variants of data transfer used in the van
- Describe the functions and diagnosis of the battery and alternator management system
- Describe how to activate the latest ECO start/stop function in the network
- Describe particular features of the Citan's on-board electrical system
- Propose solutions for current complaints

**Contents**

The training will cover the model-refined Sprinter (BR 906), the current Vito/Viano (BR 639) and the Citan:

- Complete on-board electrical system and control unit networking, including CAN technology
- Battery sensor, battery management and alternator management
- Headlamp variants and their adjustment
- Interrelation of different systems within the overall network
- Current topics and diagnostic cases
- The latest on the Citan

**Optional prerequisite**

The participant has very good knowledge in the field of vehicle electrical systems and is proficient in the use of the Workshop Information System (WIS), Diagnosis Assistance System (DAS), Measurement Technology (HMS) and wiring diagrams.

**Training Depth**

Run Method Theorie 50%, Practice 50%

**Note**

Participants can test and refresh their knowledge using the CBT programs "W4756 • Passenger Cars, Trucks, Vans • CBTT • Test on Fundamentals of Networking • Go" and "Sensors in Motor Vehicles", "W4738 • Passenger Cars, Trucks, Vans • CBTT • Test on Sensors in Motor Vehicles • Part 1 • Go", "W4739 • Passenger Cars, Trucks, Vans • CBTT • Test on Sensors in Motor Vehicles • Part 2".

This course is the basic training course for all prospective van system technicians.

**Duration**

3,0 days (per 8 hours)
# Technical Training

## On-board Electrical System, Bus System

### Title
T1306F • Vans • System Networking and Instrumentation • New V-Class and New Vito (Model Series 447) • Run

### Course Number
T1306F-AA

### Target group
System Technician

### Objectives
The participant can:
- Describe the design of the on-board electrical system and correctly assign its components
- Describe special energy storage variants and systems
- Diagnose the different bus systems and overall network
- Explain the tasks and functions of new control units and systems
- State the purpose of battery, on-board electrical system and alternator management
- Describe the new lighting variants, especially headlamp technology and Intelligent light systems
- Diagnose the electrical systems

### Contents
This course covers the following topics for the new V-Class and the new Vito (model series 447):
- Complete on-board electrical system architecture including backup and additional batteries
- All power supply variants with backup concept for voltage stabilization
- Battery sensor, battery management and alternator management
- Networking the control units and bus variants
- New exterior lighting equipment
- New control units
- Support systems

### Optional prerequisite
The participant has very good knowledge in the field of vehicle electrical systems and is proficient in the use of the Workshop Information System (WIS), Diagnosis Assistance System (DAS), Measurement Technology (HMS) and wiring diagrams.

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 50%, Practice50%</th>
</tr>
</thead>
</table>

### Duration
2,0 days (per 8 hours)
# Technical Training

## On-board Electrical System, Bus System

<table>
<thead>
<tr>
<th>Title</th>
<th>T0068E • Vans • Parameterizable Special Module (PSM) • e-Training • Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>T0068E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant meets the prerequisites for the face-to-face training.</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Special features of engine functions</td>
</tr>
<tr>
<td></td>
<td>&gt; Logic functions</td>
</tr>
<tr>
<td></td>
<td>&gt; Pinout diagram</td>
</tr>
<tr>
<td></td>
<td>&gt; PWM functions</td>
</tr>
<tr>
<td></td>
<td>&gt; Protection, potentials and functions of the inputs and outputs</td>
</tr>
<tr>
<td></td>
<td>&gt; Final test (e-Test)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Run</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
</table>

| Note | This e-Training is a prerequisite for participation in the training course "T0254F • Vans • Parameterizable Special Module (PSM) • Vito and Viano (Model Series 639), Sprinter (Model Series 906) • Run" and for participation in the training course "T0253F • Vans • Practice-Oriented Supplementary Training on the Parameterizable Special Module (PSM) • Sprinter (Model Series 906) and Vito, Viano • Run". |

| Duration | 1,0 hours |

Stand 11/2014
# Technical Training

**Department**

On-board Electrical System, Bus System

**Title**

T0254F • Vans • Parameterizable Special Module (PSM) • Vito and Viano BR 639, Sprinter BR 906 • Run

**Course Number**

T0254F-AA

**Target group**

System Technician

**Objectives**

The participant can:

- > Describe the design and function of the parameterizable special module and its integration in the on-board electrical system
- > Parameterize the special module as specified by the customer order, under consideration of safety-relevant aspects
- > Perform targeted diagnoses

**Contents**

- > Design and function of the parameterizable special module
- > Standard coding, e.g. retarder, rpm control, recreational vehicles, Kerstner refrigerated vehicles and taxis
- > Planning and implementation of freely selectable parameters
- > Combined parameterization consisting of logic functions such as the timer, threshold switch, counter, flip-flop, hysteresis block and logic block
- > Practice-oriented parameterization exercises using the service literature
- > Power take-offs
- > Engine functions, such as constant/variable working speed control, external engine start/stop
- > Notes on the body manufacturer CAN
- > Notes on product liability

**Optional prerequisite**

The participant is conversant with the operation and handling of the measuring and diagnostic equipment.

**Mandatory prerequisite**

T0068E • Vans • Parameterizable Special Module (PSM) • e-Training • Run

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 40%, Practice 60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run</td>
<td></td>
</tr>
</tbody>
</table>

**Duration**

2,0 days (per 8 hours)
# Technical Training

## Title
T0445E • Passenger Cars • Fundamentals of SDconnect with On-Board Electrical and Bus Systems • e-Training • Go

## Course Number
T0445E-AA

## Target group
System Technician

## Objectives
The participant can describe the design and functions of the on-board electrical systems and bus systems.

## Contents
- Fundamental knowledge of
  - Design and function of on-board electrical and bus systems
  - Current data bus technologies

## Training Depth
<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go</td>
<td></td>
</tr>
</tbody>
</table>

## Note
The participant is proficient in the use of Star Diagnosis and Hermann Measurement Technology. He/she has a good knowledge of vehicle electronics and electrical components. Participants can check and refresh their level of knowledge with CBT programs "Principles of Motor Vehicle Electronics" Parts 1 to 3 (order no. 1290 4757/4758/4759) and "Sensors and Actuators" (1290 4012).

## Duration
1.0 hours
## Chapter

**Technical Training**

### Department
**On-board Electrical System, Bus System**

### Title
T1028F • Trucks • System Networking and Instrumentation • Actros, Antos, Arocs, Atego Euro VI (Model Series 963, 964, 967) • Run

<table>
<thead>
<tr>
<th>Course Number</th>
<th>T1028F-AA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Target group</th>
<th>System Technician</th>
</tr>
</thead>
</table>

### Objectives
The participant can:

- Describe the design of on-board electrical systems, the bus systems used and the related basic functions in the new truck series
- Describe the functions and interaction between the different subsystems and perform diagnosis work on these components
- Describe the design and function of the current instrumentation
- Connect accessories correctly to the new on-board electrical system

### Contents

- On-board electrical system and bus systems in the new truck series Actros, Antos, Arocs and Atego Euro VI (BR 96, 963, 964, 967)
- Strategies and practical procedures when diagnosing complex electrical and electronic systems
- Fault simulations and associated diagnosis operations to familiarize participants with the interplay and typical interdependencies of the various subsystems through practical exercises
- Work through current topics and diagnosis cases

### Optional prerequisite
The participant has completed the CBT programs "Controller Area Network (Passenger Cars and Commercial Vehicles) Part 1 - Fundamentals" (order no. 1290 4716) and "Actros Network – Parts 1-2" (order no. 1290 4330/31). He/she also has excellent knowledge of electrical and electronic systems. The participant is proficient in the use of Star Diagnosis, including HMS 990.

### Training Depth

<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 50%, Practice50%</th>
</tr>
</thead>
</table>

### Note
Participants can test and refresh their knowledge using the CBT program "Wiring Diagrams" Parts 1-3 (order no. 1290 4722/23 and 1290 4312). The content of this training is intended for repair technicians with little experience regarding on-board electrical systems.

### Duration
4,0 days (per 8 hours)
## Technical Training

### Department
**Diagnosis Engineering**

### Title
T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run

### Course Number
T0005F-AA

### Target group
Diagnosis Technician

### Objectives
The participant can:
- Develop a complex diagnostic strategy for all vehicle divisions based on the five-levels model and complaint analysis
- Generate complaint-related orders
- Develop a troubleshooting tree
- Implement complex troubleshooting strategies
- Prepare documentation that is in line with audit requirements

### Contents
- Complex diagnoses according to the levels model
- Complaint analysis
- Consolidating knowledge on the use of vehicle division-specific diagnostic aids (DAS, ...)
- Practical work/diagnosis based on fault symptoms and specified/actual values
- Evaluating the on-board diagnosis
- Fault diagnosis with stored and non-stored fault codes

### Mandatory prerequisite
T0523F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Actros Model Series 963 • Initial Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
| Run | Theorie 20%, Practice 80% |

### Duration
4,0 days (per 8 hours)
### Technical Training

#### Department
Diagnosis Engineering

#### Title
T0397F • smart • Certified Diagnosis Technician • Drivetrain and Suspension • Run

#### Course Number
T0397F-AA

#### Target group
Diagnosis Technician

#### Objectives
- Ask the customer questions that are pertinent to the complaint
- Develop a strategy plan for resolving the customer complaint
- Make use of the required information sources (workshop literature)

#### Contents
- Performance of diagnostic measures with Star Diagnosis on engine and suspension components in smart model series C/A450, R/452, W454, C/A451
- Work on the vehicle with EPC, WIS/ASRA

#### Optional prerequisite
Since the diagnostic technician training for smart® vehicles necessitates corresponding knowledge of the vehicles and systems, we recommend that participants attend the following training courses beforehand: T0389F, T0320F, T0500F, T0501F, and T0503F. Comparable knowledge can also be acquired in self-study.

#### Mandatory prerequisite
- T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
- T0395F • smart • Certified Diagnosis Technician • Initial Test • Go
- T0396F • smart • Certified Diagnosis Technician • Electrical System • Run
- T0500F • smart • smart fortwo Introduction • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

#### Training Depth
- Run
- Method
- Theorie 20%, Practice 80%

#### Duration
4,0 days (per 8 hours)
# Mercedes-Benz Global Training

## Technical Training

### Department
Diagnosis Engineering

### Title
T0396F • smart • Certified Diagnosis Technician • Electrical System • Run

### Target group
Diagnosis Technician

### Objectives
The participant can:
- Ask the customer questions that are pertinent to the complaint
- Develop a strategy plan for resolving the customer complaint
- Make use of the required information sources (workshop literature)

### Contents
- Performance of diagnostic measures with Star Diagnosis on electrical and electronic vehicle systems in smart model series C/A450, R/452, W454, C/A451
- Work on the vehicle with EPC, WIS/ASRA

### Optional prerequisite
Since the diagnostic technician training for smart® vehicles necessitates corresponding knowledge of the vehicles and systems, we recommend that participants attend the following training courses beforehand: T0389F, T0320F, T0500F, T0501F, and T0503F. Comparable knowledge can also be acquired in self-study.

### Mandatory prerequisite
- T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
- T0395F • smart • Certified Diagnosis Technician • Initial Test • Go
- T0500F • smart • smart fortwo Introduction • Go
- This training/test has to be booked, before you are authorized to book the main training.
- You’ll find a detailed description about the training, using the training code.

### Training Depth
<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 20%, Practice 80%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run</td>
<td>Theorie 20%, Practice 80%</td>
<td></td>
</tr>
</tbody>
</table>

### Duration
4,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0398F • smart • Certified Diagnosis Technician • Test • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0398F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>Diagnosis Technician</td>
</tr>
</tbody>
</table>
| **Objectives** | > Determination of theoretical and practical knowledge and skills  
> Comparison with international standards |
| **Contents** | According to the examination regulations:  
> 2 x 60 minutes theory  
> 2 x 60 minutes practice  
> 15 minutes situation-specific technical discussion |
| **Optional prerequisite** | Since the diagnostic technician training for smart® vehicles presumes prior knowledge of the relevant vehicles and systems, we recommend that participants attend the following training courses before starting this training series: T0389F, T0320F, T0500F, T0384F, T0385F and T0387F. |
| **Mandatory prerequisite** | T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run  
T0395F • smart • Certified Diagnosis Technician • Initial Test • Go  
T0396F • smart • Certified Diagnosis Technician • Electrical System • Run  
T0397F • smart • Certified Diagnosis Technician • Drivetrain and Suspension • Run  
T0500F • smart • smart fortwo Introduction • Go  
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code. |
| **Training Depth** | Run |
| **Method** | Theorie 50%, Practice 50% |
| **Duration** | 1 day (per 8 hours) |
## Technical Training

### Department
Diagnosis Engineering

### Title
T0902F • smart • Certified Diagnosis Technician • Further training • Fly

### Course Number
T0902F-AA

### Target group
Diagnosis Technician

### Objectives
Participants are able to perform the following:
- Ask customers questions relevant to complaints
- Create a strategy plan for customer complaints
- Apply the necessary reference sources (workshop literature)
- Develop individual diagnosis approaches and find solutions
- Integrate the contents conveyed in complex practical exercises as part of the training into the day-to-day business

Participants are familiar with
- The smart fortwo electric drive safety scope
- Function and application of the vehicle homepage

### Contents
- Diagnosis and repair on the smart fortwo electric drive
- Safety rules regarding the smart fortwo electric drive vehicle
- Towing
- Communication options of the smart fortwo electric drive (COM module)
- Vehicle homepage
- smart charging functions
- Non-public charging

### Mandatory prerequisite
T0001F • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Qualification for Motor Vehicles • Go
T0103E • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Systems in Motor Vehicles – Awareness • e-Training • Go
T0398F • smart • Certified Diagnosis Technician • Test • Run
T0481E • smart • Market Launch • smart fortwo electric drive • e-Training • Go
T0840F • smart • smart fortwo electric drive Model Series 451 • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
<table>
<thead>
<tr>
<th>Fly</th>
<th>Method</th>
<th>Theorie 10%, Practice 90%</th>
</tr>
</thead>
</table>

### Note
The pre-qualification for the appropriate model series is a mandatory prerequisite.

### Duration
2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T1152F • smart • Certified Diagnosis Technician • smart BR 453 • Further Training • Fly</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1152F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can develop diagnoses on complex systems independently and take remedial measures.</td>
</tr>
<tr>
<td>Contents</td>
<td>Diagnosis and repair on smart model series 453.</td>
</tr>
<tr>
<td>Mandatory prerequisite</td>
<td>T0398F • smart • Certified Diagnosis Technician • Test • Run This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Fly Method Theorie 10%, Practice90%</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
## Technical Training

### Department
**Diagnosis Engineering**

### Title
T0003F • Passenger Cars • Mercedes-Benz Certified Diagnostic Technician • Initial test • Go

### Course Number
T0003F-AA

### Target group
Diagnosis Technician

### Objectives
- Participants' knowledge and skills have been ascertained.
- Participants and the dealership have been informed about the admission for the training course.
- informed about the admission prerequisites.
- An individual training plan has been prepared in the event of admission.
- An individual qualification plan has been prepared in the event that admission is not granted.
- Participants and the dealership have been informed about the individual training plan.

### Contents
Theoretical and practical evaluation of the current qualifications in the areas:
- Electrical system, comfort, telematics in E-Class model series BR 212 facelift 2013
- Powertrain in E-Class model series 212 with engines M276 DEH LA and OM642 LS
- Suspension in the S-Class model series 221 with Active Body Control and S221 with AIRmatic

### Training Depth
<table>
<thead>
<tr>
<th>Go</th>
<th>Method</th>
<th>Theorie 70%, Practice30%</th>
</tr>
</thead>
</table>

### Note
The test is part of the training series to become a certified Mercedes-Benz passenger car Diagnosis Technician. Completed vocational training with a specialization as a System Technician including the necessary interdisciplinary qualifications is required (see job profile for Diagnostic Technician).

### Duration
1 day (per 8 hours)
# Mercedes-Benz Global Training

## Technical Training

### Department
Diagnosis Engineering

### Title
T1012F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go

### Course Number
T1012F-AA

### Target group
Diagnosis Technician

### Objectives
- Participants' knowledge and skills have been ascertained.
- Participants and the dealership have been informed about approval for the training series.
- Participants and the dealership have been informed about the approval prerequisites.
- An individual training plan has been prepared in the event of approval.
- Participants and the dealership have been informed about the individual training plan.

###Contents
Theoretical test in the areas:
- Electrical system, comfort, telematics in E-Class model series 212 as of YoM 2013
- Drivetrain in E-Class model series 212 with engines M278 and OM642 LS
- Chassis in S-Class model series 222 with Active Body Control and E-Class model series 212 as of YoM 2013 with AIRmatic
- EPC, WIS/ASRA support systems with parts identification and pricing

Practical test:
- Order writing
- Communication with the customer and on the technical aspects of the practical exercise
- Diagnostic work on electrical components, comfort, telematics, drivetrain and chassis systems

### Mandatory prerequisite
T0004F • Passenger Cars, Trucks, Vans, smart • Diagnostic Strategy 1 • Go
T0178F • Passenger Cars • XENTRY Kit & Star Diagnosis • Level II • Run
This training/test has to be booked, before you are authorized to book the main training.
You’ll find a detailed description about the training, using the training code.

### Training Depth
Go

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 70%, Practice30%</th>
</tr>
</thead>
</table>

### Note
The test is part of the training series to become a certified Mercedes-Benz passenger car diagnosis technician.

### Duration
1 day (per 8 hours)
### Technical Training

**Department**
Diagnosis Engineering

**Title**
T0981F • Passenger Cars • Mercedes-Benz Certified Diagnostic Technician • Run

**Course Number**
T0981F-AA

**Target group**
Diagnosis Technician

**Objectives**
The participant can:
- Ask the customer questions that are pertinent to the complaint
- Develop a strategic plan for resolving the customer complaint
- Make use of the necessary information sources (workshop literature)

**Contents**
- Gasoline engine M276 DEH LA in the E-Class model series 212, YoM 2013
- Camshaft adjustment, secondary air injection, ignition system, air ducting, fuel system, forced induction
- Diesel engine OM 642 LS in the E-Class model series 212, YoM 2013
- Fuel system, preglow system, intake port shutoff (EKAS), exhaust gas recirculation, forced induction

**Mandatory prerequisite**
- T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
- T1002F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Electrical Components, Comfort and Telematics • Run
- T1012F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**
Run

**Method**
Theorie 10%, Practice 90%

**Duration**
4,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T0084E • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Electrical System • e-Training • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0084E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant can  
| | > Ask the customer questions that are pertinent to the complaint  
| | > Develop a strategy plan for resolving the customer complaint  
| | > Make use of the required information sources (workshop literature) |
| Contents | Model series 212:  
| | > Networking  
| | > Access authorization  
| | > Central locking  
| | > Drive authorization  
<p>| | &gt; On-board electrical system |
| Training Depth | Go |
| Method | Theorie 100% |
| Note | This e-Training is the mandatory prerequisite for &quot;T0025F • Passenger Cars • Mercedes-Benz Certified Diagnostic Technician • Electrical System • Run&quot;. |
| Duration | 1,5 hours |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T0982F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Suspension • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0982F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:  
> Ask the customer questions that are pertinent to the complaint  
> Develop a strategic plan for resolving the customer complaint  
> Make use of the required information sources (workshop literature) |
| Contents | > AIRMATIC in the E-Class model series 212, YoM 2013  
> Magic Body Control in the S-Class model series 222 |
| Mandatory prerequisite | T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run  
T1002F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Electrical Components, Comfort and Telematics • Run  
T1012F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go  
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code. |
| Training Depth | Run Method | Theorie 10%, Practice90% |
| Duration | 4,0 days (per 8 hours) |
## Technical Training

### Department
**Diagnosis Engineering**

### Title
T0007F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Test • Run

### Course Number
T0007F-AA

### Target group
Diagnosis Technician

### Objectives
Determination of theoretical and practical knowledge and skills (behavior during problem solving).

### Contents
According to the test regulations:
- 2 x 60 minutes theory
- 1 x 60 minutes practice (1)
- 1 x 70 minutes practice (2)
- 1 x 30 minutes oral test

### Optional prerequisite
*T0006F • Cars • Mercedes-Benz Certified Diagnostic Technician • Test Preparation • Run* as optional test preparation.

### Mandatory prerequisite
- T0003F • Passenger Cars • Mercedes-Benz Certified Diagnostic Technician • Initial test
- Go
- T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
- T0024F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Drivetrain M278 + OM642LS • Run
- T0025F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Electrical System • Run
- T0027F • Passenger Cars • Mercedes-Benz Certified Diagnosis Technician • Suspension and Support Systems • Run

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
**Run**

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 50%, Practice 50%</th>
</tr>
</thead>
</table>

### Note
The test is a part of the training series for becoming a Certified Diagnostic Technician for Mercedes-Benz Cars.

### Duration
1 day (per 8 hours)
## Technical Training

### Title
T0407F • Vans • Qualification Program • Mercedes-Benz Certified Diagnosis Technician

### Course Number
T0407F-AA

### Target group
Diagnosis Technician

### Objectives
Participants qualify as Certified Mercedes-Benz Diagnostic Technicians.

### Contents
The qualification program consists of the following individual training course and begins with the initial test.

Following the initial test you will receive a recommendation on which training course(s) you should book:

- T0017F-AA • Vans • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go
- T0005F-AA • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
- T0018F-AA • Vans • Mercedes-Benz Certified Diagnosis Technician • Electrical Components, Comfort and Telematics • Run
- T0019F-AA • Vans • Mercedes-Benz Certified Diagnosis Technician • Drivetrain • Run
- T0020F-AA • Vans • Mercedes-Benz Certified Diagnosis Technician • Suspension • Run
- T0022F-AA • Vans • Mercedes-Benz Certified Diagnosis Technician • Test • Run

As soon as all your qualifications have been verified, you will receive your certificate.

### Optional prerequisite
Before signing up for the certification program, you should have good knowledge of systematic troubleshooting procedures and of the workshop systems, including Star Diagnosis. Good knowledge of the on-board electrical system and vehicle networking is also required.

You can obtain or refresh this knowledge by attending training courses in the four proficiencies (drive, suspension, comfort and telecommunications systems) from the system technician qualification program. Ideally, you will have successfully completed two system technician qualification courses.

You may book the following training course to prepare for the final exam: "T0021F • Vans • Mercedes-Benz Certified Diagnostic Technician • Preparing for the Test • Run". This training features practical vehicle exercises under real diagnosis conditions.

### Training Depth | Method | Theorie 100%
--- | --- | ---
Duration | 16,0 days (per 8 hours) |
# Technical Training

## Department
**Diagnosis Engineering**

## Title
T0395F • smart • Certified Diagnosis Technician • Initial Test • Go

## Course Number
T0395F-AA

## Target group
Diagnosis Technician

## Objectives
- smart® vehicle knowledge and skills of participants have been ascertained
- An individualized qualification plan has been prepared
- Participants and the dealership have been informed of the individual qualification path

## Contents
Theoretical test of the following subjects:
- Vehicle technology across all smart® model series
- Communication methods and procedures
- Work order preparation

Practical test:
- Diagnostic work on smart® vehicles
- Correct usage of manufacturer’s systems

## Optional prerequisite
Since the diagnostic technician training for smart® vehicles presumes prior knowledge of the relevant vehicles and systems, we recommend that participants attend the following training courses before starting this training: T0389F, T0320F, T0500F, T0501F, and T0503F.

## Mandatory prerequisite
T0500F • smart • smart fortwo Introduction • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth
<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 70%, Practice30%</th>
</tr>
</thead>
</table>

## Duration
1 day (per 8 hours)
# Technical Training

## Department
**Diagnosis Engineering**

## Title
T0018F • Vans • Mercedes-Benz Certified Diagnosis Technician • Electrical Components, Comfort and Telematics • Run

## Course Number
T0018F-AA

## Target group
Diagnosis Technician

## Objectives
The participant can:
- Ask the customer questions that are pertinent to the complaint
- Develop a strategy plan for resolving the customer complaint
- Make use of the required information sources (workshop literature)

## Contents
- Networking in the Vito, Viano model series 639 and Sprinter model series 906
- Functions of the SAM, electronic ignition switch and overhead control panel in the Vito, Viano and Sprinter
- Electric sliding door in the Vito, Viano and Sprinter
- Heater and climate control in the Vito, Viano model series 639 and Sprinter model series 906
- Development of signal paths
- Fundamentals of the PSM in the Vito, Viano and Sprinter
- Troubleshooting according to the levels model

## Mandatory prerequisite
T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
T0017F • Vans • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth
Run  
**Method**  Theorie 20%, Practice 80%

## Note
The training is a part of the qualification series for becoming a Certified Diagnostic Technician.

## Duration
4,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T0019F • Vans • Mercedes-Benz Certified Diagnosis Technician • Drivetrain • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0019F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:  
  > Ask the customer questions that are pertinent to the complaint  
  > Develop a strategic plan for resolving the customer complaint  
  > Make use of the required information sources (workshop literature) |
| Contents |  
  > Drivetrain networking  
  > Fuel circuit on engines OM651 and OM642  
  > Engine management on engines OM651 and OM642 |
| Mandatory prerequisite | T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run  
  T0017F • Vans • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go  
  T0018F • Vans • Mercedes-Benz Certified Diagnosis Technician • Electrical Components, Comfort and Telematics • Run  
  This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code. |
<p>| Training Depth | Run | Method | Theorie 20%, Practice80% |
| Note | The training is a part of the training series for becoming a Certified Diagnostic Technician. |
| Duration | 4,0 days (per 8 hours) |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T0020F • Vans • Mercedes-Benz Certified Diagnosis Technician • Suspension • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0020F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Ask the customer questions that are pertinent to the complaint</td>
</tr>
<tr>
<td></td>
<td>&gt; Develop a strategy plan for resolving the customer complaint</td>
</tr>
<tr>
<td></td>
<td>&gt; Make use of the required information sources (workshop literature)</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Troubleshooting and diagnosis on current suspension systems</td>
</tr>
<tr>
<td></td>
<td>&gt; ESP brake system in the Vito, Viano model series 639 and Sprinter model series 906</td>
</tr>
<tr>
<td></td>
<td>&gt; Air suspension system in the Vito, Viano model series 639</td>
</tr>
<tr>
<td>Mandatory prerequisite</td>
<td>T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run</td>
</tr>
<tr>
<td></td>
<td>T0017F • Vans • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go</td>
</tr>
<tr>
<td></td>
<td>T0018F • Vans • Mercedes-Benz Certified Diagnosis Technician • Electrical Components, Comfort and Telematics • Run</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
</tbody>
</table>

Note: This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Note: The training is a part of the qualification series for becoming a Certified Diagnostic Technician.

Duration: 2,0 days (per 8 hours)
## Technical Training

### Department
Diagnosis Engineering

### Title
T0023F • Vans • Mercedes-Benz Certified Diagnosis Technician • Further Training • Fly

### Course Number
T0023F-AA

### Target group
Diagnosis Technician

### Objectives
The participant can plan and efficiently carry out troubleshooting on current vehicle systems with the aid of the levels model.

### Contents
- New Citan
- Battery and generator management
- ECO start/stop function
- Automatic transmission 722.9
- Current problem cases from all vehicle model series

Information on current content will be sent to the diagnostic technician in a personal invitation letter.

### Mandatory prerequisite
- T0022F • Vans • Mercedes-Benz Certified Diagnosis Technician • Test • Run
- T0426E • Vans • Citan • e-Training • Go

This training/test has to be booked, before you are authorized to book the main training. You'll find a detailed description about the training, using the training code.

### Training Depth
- Fly

### Method
Theorie 20%, Practice 80%

### Note
The preliminary training on the concerned model series is a mandatory prerequisite

### Duration
2,0 days (per 8 hours)
# Mercedes-Benz Global Training

## Technical Training

### Department
Diagnosis Engineering

### Title
T0948F • Vans • Mercedes-Benz Certified Diagnosis Technician • Further Training • Fly

### Course Number
T0948F-AA

### Target group
Diagnosis Technician

### Objectives
The participant can:
- perform all the steps required for initial contact with the customer and the vehicle using a customer-friendly approach
- determine whether the customer complaint may be due to incorrect operation or is actually a feature of normal system operation
- apply complaint analysis to help create a logical, comprehensible work procedure
- recognize complaints involving more than one system and properly process them
- create practical documentation reflecting the scope of work involved
- work through the testing, adjustment and repair measures as required for the defined topics while observing the accident prevention regulations and manufacturer specifications

### Contents
- New products/features and modifications in the Sprinter facelift (model series 906)
- New V-Class model series 447, overall vehicle with extended diagnosis
- Citan model series 415: gasoline engine with extended diagnosis
- Current problem cases from all vehicle model series (vans)

The Diagnosis Technician will be informed of the latest course content in the personal invitation letter.

### Mandatory prerequisite
T0022F • Vans • Mercedes-Benz Certified Diagnosis Technician • Test • Run
T0804E • Passenger Cars, Vans • Market Launch • Viano BR 447 • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
Fly Method
Theorie 20%, Practice 80%

### Note
The preliminary training course on the relevant model series is a mandatory prerequisite.

### Duration
2,0 days (per 8 hours)
## Technical Training

### Title
T0011F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go

### Course Number
T0011F-AA

### Target group
Diagnosis Technician

### Objectives
- Knowledge and skills of participants have been ascertained
- Participants and the dealership have been informed about approval for the training series
- Participants and the dealership have been informed about the approval prerequisites
- An individual training plan has been prepared in the event of approval
- Participants and the dealership have been informed about the individual training plan

### Contents
- Theoretical test on the Actros model series 93x in the areas:
  - Electrical components - comfort - telematics
  - Drivetrain
  - Suspension
  - WIS, EPC, operation texts, standard texts, flat rates and work units (ASRA) support systems with part determination and pricing
- Practical test on the Actros model series 93x:
  - Communication with the customer and on the technical facts of the practical exercise
  - Order writing
  - Diagnostic work on electrical components, comfort, telematics, drivetrain and suspension systems

### Optional prerequisite
- T0178F • Passenger Cars • Star Diagnosis • Stage II • Run
- T0004F • Passenger Cars, Trucks, Vans, smart • Diagnostic Strategy 1 • Go

### Training Depth
Go

### Method
Theorie 70%, Practice 30%

### Note
The test is a part of the training series to become a Certified Mercedes-Benz Diagnostic Technician.

### Duration
1 day (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T0110E • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Electrical System • e-Training • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0110E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:  
> Ask the customer questions that are pertinent to the complaint  
> Develop a strategic plan for resolving the customer complaint  
> Make use of the required information sources (workshop literature) |
| Contents | > Networking  
> Seats  
> Lighting  
> On-board electrical system  
> FleetBoard  
> Drive authorization  
> Telematics  
> Air conditioning system in the Actros model series 93x |
| Training Depth | Go |
| Method | Theorie 100% |
| Note | This e-Training is a mandatory prerequisite for "T0028F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Electrical System • Run". |
| Duration | 1,5 hours |
# Technical Training

## Chapter

### Department

**Diagnosis Engineering**

### Title

T0028F • Trucks • Mercedes-Benz Certified Diagnostic Technician • Electrical system • Run

### Course Number

T0028F-AA

### Target group

Diagnosis Technician

### Objectives

The participant can:

- Plan and efficiently perform troubleshooting on electrical/electronic vehicle systems with the help of the levels model and complaint analysis
- Evaluate the current systems and initiate targeted diagnosis

### Contents

- Networking, seats, lighting, on-board electrical system, FleetBoard, drive authorization, telematics, air conditioner in the Actros model series
- Troubleshooting according to complaint analysis and the levels model

### Mandatory prerequisite

T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run  
T0011F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go  
T0110E • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Electrical System • e-Training • Go  

This training/test has to be booked, before you are authorized to book the main training. You´ll find a detailed description about the training, using the training code.

### Training Depth

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 10%, Practice90%</th>
</tr>
</thead>
</table>

### Duration

3,0 days (per 8 hours)
Chapter: Technical Training

Department: Diagnosis Engineering

Title: T0943F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Electrical Components, Comfort, Telematics • Run

Course Number: T0943F-AA

Target group: Diagnosis Technician

Objectives:
The participant can:
> Ask the customer questions that are pertinent to the complaint
> Develop a strategic plan for resolving the customer complaint
> Make use of the required information sources (workshop literature)

Contents:
Actros model series 963
> Networking
> On-board electrical system
> Drive authorization
> Access authorization
> Air conditioning system
> Heating system

Mandatory prerequisite:
T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
T0523F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Actros Model Series 963 • Initial Test • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Training Depth:
Run
Method
Theorie 10%, Practice 90%

Duration:
4,0 days (per 8 hours)
# Technical Training

## Chapter
**Technical Training**

## Department
**Diagnosis Engineering**

## Title
T0109E • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Drivetrain • e-Training • Go

## Course Number
T0109E-AA

## Target group
Diagnosis Technician

## Objectives
The participant can:
- Ask the customer questions that are pertinent to the complaint
- Develop a strategic plan for resolving the customer complaint
- Make use of the required information sources (workshop literature)

## Contents
- BLUETEC
- Thermal management
- Fuel circuit
- Sensors
- Actuators
- Engine control and drive control networking
- Engine control
- Starter control in the Actros model series

## Training Depth
Go

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie</th>
<th>100%</th>
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<tr>
<td>Training Depth</td>
<td>Go</td>
<td>Method</td>
</tr>
<tr>
<td>Note</td>
<td>This e-Training is a mandatory prerequisite for <em>T0029F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Drivetrain • Run</em>.</td>
<td></td>
</tr>
</tbody>
</table>

## Duration
1,5 hours
### Technical Training

**Department**  
Diagnosis Engineering

**Title**  
T0029F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Drivetrain • Run

**Course Number**  
T0029F-AA

**Target group**  
Diagnosis Technician

**Objectives**  
The participant can:
- Ask the customer questions that are pertinent to the complaint
- Develop a strategic plan for resolving the customer complaint
- Make use of the required information sources (workshop literature)

**Contents**  
Actros model series 93x:
- BlueTec®
- Thermal management
- Fuel circuit
- Sensors
- Actuators
- Engine control and drive control networking
- Engine control
- Starter control

**Mandatory prerequisite**  
T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run  
T0011F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go  
T0028F • Trucks • Mercedes-Benz Certified Diagnostic Technician • Electrical system • Run  
T0109E • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Drivetrain • e-Training • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**  
Run Method  
Theorie 10%, Practice 90%

**Duration**  
3,0 days (per 8 hours)
**Technical Training**

<table>
<thead>
<tr>
<th>Title</th>
<th>T0111E • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Chassis • e-Training • Go</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>T0111E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant can: > Ask the customer questions that are pertinent to the complaint  
> Develop a strategic plan for resolving the customer complaint  
> Make use of the required information sources (workshop literature) |
| Contents | > Air brake system  
> Electronic Air-Processing Unit (EAPU)  
> Telligent brake system (BS2)  
> Driving assistance systems  
> Level control  
> Steering gear |
| Training Depth | Go  
Method | Theorie 100% |
| Note | This e-Training is a mandatory prerequisite for "T0030F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Chassis • Run". |
| Duration | 1,5 hours |

Stand 11/2014
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0030F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Suspension • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
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</tr>
<tr>
<td><strong>Target group</strong></td>
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</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Ask the customer questions that are pertinent to the complaint</td>
</tr>
<tr>
<td></td>
<td>&gt; Develop a strategic plan for resolving the customer complaint</td>
</tr>
<tr>
<td></td>
<td>&gt; Make use of the required information sources (workshop literature)</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>&gt; Compressed air supply</td>
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<tr>
<td></td>
<td>&gt; Electronic air-processing unit (EAPU)</td>
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<tr>
<td></td>
<td>&gt; Telligent® brake system (BS2)</td>
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<tr>
<td></td>
<td>&gt; Driving assistance systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Level control</td>
</tr>
<tr>
<td></td>
<td>&gt; Steering gear</td>
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<tr>
<td><strong>Mandatory prerequisite</strong></td>
<td>T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run</td>
</tr>
<tr>
<td></td>
<td>T0011F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go</td>
</tr>
<tr>
<td></td>
<td>T0028F • Trucks • Mercedes-Benz Certified Diagnostic Technician • Electrical system • Run</td>
</tr>
<tr>
<td></td>
<td>T0111E • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Chassis • e-Training • Go</td>
</tr>
<tr>
<td></td>
<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Run</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>Theorie 10%, Practice 90%</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>3,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

**Department**
Diagnosis Engineering

**Title**
T0013F • Trucks • Mercedes-Benz Certified Diagnostic Technician • Test Preparation • Run

**Course Number**
T0013F-AA

**Target group**
Diagnosis Technician

**Objectives**
The participant can implement the test procedure.

**Contents**
- Explanation of the test process
- Explanation of the automotive diagnostic process
- Troubleshooting according to the levels model
- Consolidation of the material covered in training courses T0005F, T0028F, T0029F and T0030F

**Mandatory prerequisite**
T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
T0011F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go
T0028F • Trucks • Mercedes-Benz Certified Diagnostic Technician • Electrical system • Run
T0029F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Drivetrain • Run
T0030F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Suspension • Run

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**
Run

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 10%, Practice90%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
<td></td>
</tr>
</tbody>
</table>
### Technical Training

**Department**  
Diagnosis Engineering

**Title**  
T0014F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Test • Run

**Course Number**  
T0014F-AA

**Target group**  
Diagnosis Technician

**Objectives**  
Determination of theoretical and practical knowledge and skills (participants’ problem-solving approaches).

**Contents**  
According to the test regulations:  
- 2 x 60 minutes theory  
- 1 x 60 minutes practice (1)  
- 1 x 70 minutes practice (2)  
- 1 x 30 minutes oral test

**Optional prerequisite**  
*T0013F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Test Preparation • Run* as optional test preparation.

**Mandatory prerequisite**  
T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run  
T0011F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Initial Test • Go  
T0028F • Trucks • Mercedes-Benz Certified Diagnostic Technician • Electrical system • Run  
T0029F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Drivetrain • Run  
T0030F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Suspension • Run  
T0109E • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Drivetrain • e-Training • Go  
T0110E • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Electrical System • e-Training • Go  
T0111E • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Chassis • e-Training • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**  
Run  
Method Theorie 50%, Practice 50%

**Note**  
The test is a part of the training program for Certified Diagnostic Technicians for Mercedes-Benz Trucks.

**Duration**  
1 day (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T0016F • Trucks • Mercedes-Benz Certified Diagnostic Technician • Further Training • Fly</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0016F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant:  
  > Can go through all the steps necessary when making initial contact with the customer and the vehicle in a customer-friendly way  
  > Can determine whether the customer complaint is possibly due to incorrect operation or is indeed a feature of normal system operation  
  > Can apply complaint analysis to help in creating a logical and understandable work procedure  
  > Can recognize when complaints involve more than one system and properly process such complaints  
  > Can make targeted use of knowledge sources (customers, coworkers, WIS, TIPS, SD Media, Xentry) to efficiently move forward with his/her work procedures and solution pathway.  
  > Can create practical documentation reflecting the scope of work involved  
  > Is familiar with the objectives for the model series and systems as described in the various chapters  
  > Can work through the testing, adjustment and repair measures as required for the defined topics while observing the accident prevention regulations and manufacturer specifications |
| Contents | > Expanded system and diagnostic scope for the new Actros for long-distance haulage  
Updated content will be e-mailed to operations with their invitations. |
| Mandatory prerequisite | T0014F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Test • Run  
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code. |
| Training Depth | Fly Method Theorie 20%, Practice80% |
| Duration | 2,0 days (per 8 hours) |
# Technical Training

## Department
Diagnosis Engineering

## Title
T0524F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Drivetrain • Actros Model Series 96x • Run

## Course Number
T0524F-AA

## Target group
Diagnosis Technician

## Objectives
The participant can:
- Plan and efficiently carry out troubleshooting on the drivetrain with the aid of the levels model and complaint analysis model
- Evaluate the current systems and initiate targeted diagnosis

## Contents
- BlueTec®
- Thermal management
- Fuel circuit
- Sensors
- Actuators
- Engine control and drive control networking
- Engine control
- Starter control
- Troubleshooting according to complaint analysis and levels model

## Mandatory prerequisite
T0526E • Trucks • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 10%, Practice 90%</th>
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## Duration
3,0 days (per 8 hours)
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<tr>
<th>Chapter</th>
<th>Technical Training</th>
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<tbody>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T1154F • Trucks • Mercedes-Benz Certified Diagnosis Technician • Further Training 2015 (Model Series 93x) • Fly</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1154F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
</tbody>
</table>

> Ask the customer questions that are pertinent to the complaint
> Develop a strategic plan for resolving the customer complaint
> Make use of the necessary information sources (workshop literature)

<table>
<thead>
<tr>
<th>Contents</th>
<th>Information on current content will be sent to the diagnosis technician in a personal invitation letter.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandatory prerequisite</td>
<td>T0014F • Trucks • Mercedes-Benz Certified Diagnostic Technicians • Test • Run This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Fly Method Theorie 20%, Practice 80%</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
</tr>
<tr>
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</tr>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T0944F • smart • Certified Diagnosis Technician • smart BR 453 • Further Training • Fly</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0944F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can develop diagnoses on complex systems independently and take remedial measures.</td>
</tr>
<tr>
<td>Contents</td>
<td>Diagnosis and repair on smart model series 453.</td>
</tr>
<tr>
<td>Mandatory prerequisite</td>
<td>T0398F • smart • Certified Diagnosis Technician • Test • Run This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td>Training Depth</td>
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</tr>
<tr>
<td>Duration</td>
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</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Department</td>
<td>Diagnosis Engineering</td>
</tr>
<tr>
<td>Title</td>
<td>T0992F • smart • Certified Diagnostic Technician • Electrical Components, Comfort and Telematics • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0992F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Diagnosis Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:  
> Ask the customer questions that are pertinent to the complaint  
> Develop a strategy plan for resolving the customer complaint  
> Make use of the required information sources (workshop literature) |
| Contents | > Drivetrain networking  
> Fuel circuit on engines xy  
> Engine management on engines xy |
| Mandatory prerequisite | T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run  
T1010F • smart • Certified Diagnostic Technician • Initial test  
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code. |
| Training Depth | Run Method  |
| | Theorie 20%, Practice 80% |
| Duration | 4.0 days (per 8 hours) |
## Technical Training

### Department
**Diagnosis Engineering**

### Title
T0993F • smart • Certified Diagnostic Technician • Drivetrain • Run

### Course Number
T0993F-AA

### Target group
Diagnosis Technician

### Objectives
The participant can:
- Ask the customer questions that are pertinent to the complaint
- Develop a strategy plan for resolving the customer complaint
- Make use of the required information sources (workshop literature)

### Contents
- Drivetrain networking
- Fuel circuit on engines xy
- Engine management on engines xy

### Mandatory prerequisite
- T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
- T0992F • smart • Certified Diagnostic Technician • Electrical Components, Comfort and Telematics • Run
- T1010F • smart • Certified Diagnostic Technician • Initial test

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 20%, Practice 80%</th>
</tr>
</thead>
</table>

### Duration
4,0 days (per 8 hours)
Chapter

Technical Training

Department

Diagnosis Engineering

Title

T0995F • smart • Certified Diagnostic Technician • Test • Run

Course Number

T0995F-AA

Target group

Diagnosis Technician

Objectives

Determination of theoretical and practical knowledge and skills (behavior during problem solving).

Contents

According to the test regulations:
> 2 x 60 minutes theory
> 1 x 60 minutes practice (1)
> 1 x 70 minutes practice (2)
> 1 x 30 minutes oral test

Mandatory prerequisite

T0005F • Passenger Cars, Trucks, Vans, smart • Mercedes-Benz Certified Diagnosis Technician • Diagnostic Strategy 2 • Run
T0992F • smart • Certified Diagnostic Technician • Electrical Components, Comfort and Telematics • Run
T0993F • smart • Certified Diagnostic Technician • Drivetrain • Run
T0994F • smart • Certified Diagnostic Technician • Suspension • Run
T1010F • smart • Certified Diagnostic Technician • Initial test

This training/test has to be booked, before you are authorized to book the main training.
You’ll find a detailed description about the training, using the training code.

Training Depth

Run

Method

Theorie 50%, Practice 50%

Duration

1 day (per 8 hours)
## Technical Training

### Department
Diagnosis Engineering

### Title
T1010F • smart • Certified Diagnostic Technician • Initial test

### Course Number
T1010F-AA

### Target group
Diagnosis Technician

### Objectives
- Knowledge and skills of participants have been ascertained
- Participants and the dealership have been informed about approval for the training
- Participants and the dealership have been informed about the approval prerequisites
- An individual training plan has been prepared in the event of approval
- Participants and the dealership have been informed about the individual training plan

### Contents
Theoretical test covering the following subjects:
- Electrical system, comfort, telematics ... Specification to be determined
- Drivetrain, ... Specification to be determined
- Suspension, ... Specification to be determined
- Non-technical EPC, WIS/ASRA with part determination and pricing

Practical test:
- Order writing
- Communication with the customer and on the technical facts of the practical exercise
- Diagnostic work on electrical components, comfort, telematics, drivetrain and suspension systems

### Optional prerequisite
T0004F • Passenger Cars, Trucks, Vans, smart • Diagnosis Strategy 1 • Go

### Training Depth
<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theorie 70%, Practice 30%</td>
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</tbody>
</table>

### Note
The test is a part of the training series for smart Certified Diagnostic Technicians.

### Duration
1 day (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Overall Vehicle</td>
</tr>
<tr>
<td>Title</td>
<td>T0004F • Passenger Cars, Trucks, Vans, smart • Diagnostic Strategy I • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0004F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician, FUSO-Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:  
> Describe the concept and purpose of a diagnostic strategy  
> Develop an all-categories diagnostic strategy based on the levels model  
> Apply the current industry-specific diagnoses and diagnostic aids and evaluate their results and develop them further  
> Describe the various fault types and their effects  
> Implement his daily work in a more structured and goal-oriented manner |
| Contents | > Diagnoses according to the levels model  
> Faults and fault types  
> Application of the industry-specific diagnostic aids (XENTRY, DAS,...)  
> Practical work regarding diagnoses with and without fault codes  
> Evaluating the on-board diagnosis |
| Optional prerequisite | The participant has good knowledge of Star Diagnosis as well as HMS990 or has completed training course "HMS990 T0178F • Passenger Cars • Star Diagnosis Level II • Run" or "T0180F • Trucks, Vans • Star Diagnosis Level II • Run". The two CBTs "Troubleshooting, Successful with Understanding and all of the Senses" T0635E (W4754) and "Diagnostic Strategy, Future Level Model" T0673E (W4799) can be used as preparation. |
| Training Depth | Go |
| Method | Theorie 30%, Practice70% |
| Duration | 4,0 days (per 8 hours) |
Technical Training

Department

Overall Vehicle

Title

T1252Q • FUSO • Qualification Program • 2015 • Fuso Technician • Run

Course Number

T1252Q-AA

Target group

FUSO-Technician

Objectives

The participant will qualify as a Fuso Technician. Participants receive a certificate following completion of the qualification program.

Contents

The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1252P-AA • FUSO • Qualification Program • 2015 • Fuso Technician • Competency Analysis

> T0004F-AA • Passenger Cars, Trucks, Vans, smart • Diagnostic Strategy 1 • Go
> T0433F-AA • FUSO • Electrical System • Canter TF • On-Board Electrical System, System Networking, Retrofitting • Run
> T0768F-AA • FUSO • Diesel Engines • Engine Model Series 4P10, Euro 5/6 from Facelift TF1 • Run
> T0780F-AA • FUSO • Overall Vehicle • Canter TF BR 468 • Go
> T1039F-AA • FUSO • Transmissions • Repair of DUONIC® transmission and system diagnoses • Run
> T1247F-AA • FUSO • Overall Vehicle • Canter TF • Welcome to Canter World • Go
> T1246E-AA • FUSO • Qualification Program • 2015 • Fuso Technicians • Final Test • Go

As soon as all your qualifications have been verified, you will receive your certificate.

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Run</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
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## Chapter
Technical Training

<table>
<thead>
<tr>
<th>Department</th>
<th>Overall Vehicle</th>
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</thead>
<tbody>
<tr>
<td>Title</td>
<td>T1246E • FUSO • Qualification Program • 2015 • Fuso Technicians • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1246E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>FUSO-Technician</td>
</tr>
</tbody>
</table>

### Objectives
> The participant's knowledge is determined for the competence areas.
> An individual qualification plan is created for the competence area.
> The participant and supervisor are informed of the individual qualification path.

### Contents
Theoretical test covering the following subjects:
> Engine 4P10
> Duonic transmissions
> Electrical components and electrical networking in the Canter
> Diagnosis strategy
> Vehicle basics
> Diagnosis technician

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go</td>
<td>Theorie 100%, Practice0%</td>
<td></td>
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</tbody>
</table>

### Note
The test is part of the qualification program for Fuso Technicians.

<table>
<thead>
<tr>
<th>Duration</th>
<th></th>
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<tbody>
<tr>
<td>0 hours</td>
<td></td>
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</tbody>
</table>
## Technical Training

### Overall Vehicle

<table>
<thead>
<tr>
<th>Title</th>
<th>T0509F • FUSO • Diesel Engines • Canter TD • Parameterization of the Engine Control Unit for Operations with Mercedes-Benz Diagnostic System (Star Diagnosis) • Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
<td>T0509F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:  
  > Describe the design and individual functions of the engine control unit  
  > Describe the parameterization procedure for the engine control unit  
  > Describe and assess example applications for parameterization  
  > Assess the need for parameterization  
  > Use Star Diagnosis to perform parameterization  
  > Redocument parameterization work  
  > Describe testing and retrofit operations |
| Contents | > Parameterization of the control units using the online portal  
  > Assessment of need to parameterize the engine control unit  
  > Procedure when installing retrofits |
| Training Depth | Run | Method | Theorie 30%, Practice 70% |
| Duration | 1 day (per 8 hours) |
Technical Training

Overall Vehicle

Title
T0890E • Passenger Cars • System Technician • Knowledge Check • Go

Course Number
T0890E-AA

Target group
System Technician

Objectives
> The participant’s knowledge is determined for the competence areas
> An individual qualification plan is created for the competence area
> The participant and supervisor are informed of the individual qualification path

Contents
Theoretical test in the areas of:
> General technical knowledge in comprehensive competence areas, such as
  - Diagnostic competence, on-board electrical systems and bus systems
  - Drive systems, suspension and drive assistance systems, comfort and safety systems, as well as telecommunications systems

Training Depth
Go

Duration
0 hours

Method
Theorie 100%, Practice0%
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Overall Vehicle</td>
</tr>
<tr>
<td>Title</td>
<td>T1247F • FUSO • Overall Vehicle • Canter TF • Welcome to Canter World • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1247F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>FUSO-Technician</td>
</tr>
</tbody>
</table>

**Objectives**

The participant can:

> Convincingly approach customers and describe product advantages
> Persuasively explain his/her motivation for working on the Fuso Canter
> Understand the role of the FUSO brand within the Daimler Group
> Name the production and development sites for the Canter
> State information sources and describe key content
  - Use the European After-Sales Portal
  - Describe the procedure for identifying replacement parts

**Contents**

> Motivation
> General brand and product information
> Use of information sources and service literature

**Training Depth**

| Go | Theorie 50%, Practice50% |

**Duration**

1 day (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td><strong>Overall Vehicle</strong></td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0780F • FUSO • Overall Vehicle • Canter TF BR 468 • Go</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0780F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>FUSO-Technician</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>After the training course, the participant can</td>
</tr>
<tr>
<td></td>
<td>&gt; Understand the role of the FUSO brand within the Daimler Group</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the production and development sites for the Canter</td>
</tr>
<tr>
<td></td>
<td>&gt; Identify the Canter and distinguish between different models</td>
</tr>
<tr>
<td></td>
<td>&gt; Locate important components for vehicle operation on the vehicle</td>
</tr>
<tr>
<td></td>
<td>&gt; State information sources and describe key content</td>
</tr>
<tr>
<td></td>
<td>&gt; Use the European After-Sales Portal</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the procedure for identifying replacement parts</td>
</tr>
<tr>
<td></td>
<td>&gt; Efficiently apply workshop literature</td>
</tr>
<tr>
<td></td>
<td>&gt; Explain the qualifications required to work on the Canter Eco HYBRID</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform maintenance work on the Canter and reset corresponding control units in conjunction with maintenance operations</td>
</tr>
<tr>
<td></td>
<td>&gt; Teach in the DUONIC® transmission</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the networking of electrical systems in the vehicle</td>
</tr>
<tr>
<td></td>
<td>&gt; Use electrical wiring diagrams</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe special service-related considerations, e.g. lifting the vehicle, towing, etc.</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the engine and transmission variants</td>
</tr>
<tr>
<td></td>
<td>&gt; Identify axle versions based on specific features</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the design of the limited slip-differential and explain special considerations for service</td>
</tr>
<tr>
<td></td>
<td>&gt; Operate the all-wheel drive and explain its design</td>
</tr>
<tr>
<td></td>
<td>&gt; Explain the design of the service brake and parking brake</td>
</tr>
<tr>
<td></td>
<td>&gt; Identify part numbers for retrofitting</td>
</tr>
<tr>
<td></td>
<td>&gt; Efficiently operate the diagnostic system and perform simple diagnoses</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; General market and product information</td>
</tr>
<tr>
<td></td>
<td>&gt; Working with service literature and information sources</td>
</tr>
<tr>
<td></td>
<td>&gt; Handling the vehicle in service</td>
</tr>
<tr>
<td></td>
<td>&gt; Special considerations for maintenance and repair work</td>
</tr>
<tr>
<td></td>
<td>&gt; Distinguishing features of major assemblies</td>
</tr>
<tr>
<td></td>
<td>&gt; Working with the diagnostic system</td>
</tr>
<tr>
<td><strong>Optional prerequisite</strong></td>
<td>The participant has completed basic training course &quot;T0179F • Trucks, Vans • Star Diagnosis • Level I • Go&quot; or has equivalent knowledge.</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Go</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>Theorie 50%, Practice50%</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
## Technical Training

### Department
**Overall Vehicle**

### Title
T1126F • FUSO • Overall Vehicle • Canter Eco • Hybrid High-Voltage Product Qualification • Run

### Course Number
T1126F-AA

### Target group
System Technician Powertrain

### Objectives
- Communicate the environmental advantages of using the innovative drive technology in the Canter Eco Hybrid
- Operate the vehicles and analyze, for example, how customers actually operate them
- Explain the task and mode of operation of individual system components
- Apply the customer support concept for service purposes
- Initiate safety measures for certain types of work on the vehicle
- Perform a power disconnect and startup for the high-voltage system
- Use special tools correctly
- Perform any diagnoses required using Star Diagnosis and Fuso Diagnosis
- Perform practical work on the components of the high-voltage system

### Contents
- Advantages of using a hybrid drive system in trucks
- System operation
- Task and function of system components
- Function of the system
- Safety when working on the vehicle
- Customer support concept in the service sector
- Practical work

### Mandatory prerequisite
T0001F • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Qualification for Motor Vehicles • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
| Run Method | Theorie 45%, Practice55% |

### Note
**IMPORTANT!** Persons with electronic implants (e.g. pacemakers) are not permitted to work on high-voltage systems. They may not do any practical work on the HV system during training and are not HV-certified on completion of the course.

### Duration
2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Overall Vehicle</td>
</tr>
<tr>
<td>Title</td>
<td>T0768F • FUSO • Diesel Engines • Engine Model Series 4P10, Euro 5/6 from Facelift TF1 • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0768F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>FUSO-Technician</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:  
> Identify the components of the fuel injection system  
> Explain their design and function  
> Carry out targeted diagnostic, repair and adjustment operations |
| Contents | > Mechanical engine components  
> Fuel injection system with injection components and injection function  
> Engine electrical system  
> Fuel circuit  
> Exhaust gas recirculation and SCR technology  
> Turbocharging  
> Diesel particulate filter and NOx catalytic converter  
> Adjustment, diagnosis and repair work |
| Optional prerequisite | The participant has attended the training course "T0780F • FUSO Truck • Canter Model TF • Go" or has equivalent knowledge. He/she is confident in the operation and handling of the measuring and diagnostic equipment. |
| Training Depth | Run | Method | Theorie 50%, Practice50% |
| Duration | 2,0 days (per 8 hours) |
# Technical Training

## Department
**Overall Vehicle**

## Title
T1248E • Trucks • Overall Vehicle • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • e-Training • Go

## Course Number
T1248E-AA

## Target group
System Technician

## Objectives
The participant can:
> Describe the innovations in the most important technical systems, components and major assemblies
> Communicate innovations in a customer-friendly manner

## Contents
Description of the individual systems and an overview of the arrangement, design and basic functions of the technical innovations, including:
> Engines
> Exhaust aftertreatment
> Gearshift equipment and clutch systems
> Vehicle electrical components, on-board electrical system and networking
> Comfort and passive safety systems
> Telecommunications
> Retrofitting and accessories

## Training Depth
<table>
<thead>
<tr>
<th>Go</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method</td>
</tr>
</tbody>
</table>

## Note
The e-Training serves as preparation for overall vehicle training on the Actros, Antos, Arocs and Atego Euro VI truck series (model series 963, 964, 967)

## Duration
2,5 hours
**Technical Training**

<table>
<thead>
<tr>
<th>Department</th>
<th>Overall Vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title</strong></td>
<td>T1330F • Vans, Trucks • Special Training • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T1330F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can apply knowledge of the latest product, diagnosis and repair technologies while performing basic maintenance, test and repair work.</td>
</tr>
</tbody>
</table>
| **Contents**     | > General product technology  
|                  | > Networking, on-board and other electrical systems  
|                  | > Components and major assemblies  
|                  | > General maintenance and repair work  
|                  | > Fault diagnosis and elimination |
| **Training Depth** | Run Method Theorie 50%, Practice 50% |
| **Duration**     | 4,0 days (per 8 hours) |
## Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
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</thead>
</table>

### Overall Vehicle

<table>
<thead>
<tr>
<th>Title</th>
<th>T1138F • Vans • Overall Vehicle • Sprinter BR 906 • Go</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Course Number</th>
<th>T1138F-AA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Target group</th>
<th>System Technician</th>
</tr>
</thead>
</table>

### Objectives

The participant can:

- Operate the systems in the vehicle and explain their functions
- Perform repair work on the systems according to the manufacturer’s instructions
- Perform diagnostic steps required to repair the systems

### Contents

Procedures for repair work:

- Functions of the systems
  - Drivetrain
  - Comfort
  - Drive authorization
  - Safety
  - Telecommunications
- Operation of these systems
- Maintenance and repair
- Diagnosis
- Special considerations for service

### Mandatory prerequisite

T0785E • Vans • Sprinter Facelift • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training. You ’ll find a detailed description about the training, using the training code.

### Training Depth

Method: Theorie 30%, Practice 70%

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Go</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>2.0 days (per 8 hours)</td>
<td>Theorie 30%, Practice70%</td>
</tr>
</tbody>
</table>
# Technical Training

**Department**

**Overall Vehicle**

**Title**

T0980F • Vans • Overall Vehicle • Sprinter Model Series 909 • Go

**Course Number**

T0980F-AA

**Target group**

System Technician

**Objectives**

The participant can:

- Operate the systems in the vehicle and explain their functions
- Perform repair work on the systems according to the manufacturer’s instructions
- Perform diagnostic steps required to repair the systems

**Contents**

Procedures for repair work:

- Functions of the systems
  - Drivetrain
  - Comfort
  - Drive authorization
  - Safety
  - Telecommunications
- Operation of these systems
- Maintenance and repair
- Diagnosis
- Special considerations for service

**Training Depth**

Go

**Method**

Theorie 30%, Practice 70%

**Duration**

2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Overall Vehicle</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0426E • Vans • Citan • e-Training • Go</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0426E-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; State the innovations</td>
</tr>
<tr>
<td></td>
<td>- Describe the most important technical systems, components and major assemblies</td>
</tr>
<tr>
<td></td>
<td>- Communicate in a customer-oriented fashion</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>Description of the individual systems and an overview of the arrangement, design and basic functions of the technical innovations, including:</td>
</tr>
<tr>
<td></td>
<td>&gt; Engines</td>
</tr>
<tr>
<td></td>
<td>&gt; Exhaust aftertreatment</td>
</tr>
<tr>
<td></td>
<td>&gt; Gearshift equipment and clutch systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Vehicle electrical components, on-board electrical system and networking</td>
</tr>
<tr>
<td></td>
<td>&gt; Comfort and passive safety systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Telecommunications</td>
</tr>
<tr>
<td></td>
<td>&gt; Retrofitting and accessories</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Go</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>Theorie 100%, Practice0%</td>
</tr>
<tr>
<td><strong>Note</strong></td>
<td>This e-Training is preparation for the training course on the &quot;Citan&quot;.</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>1.5 hours</td>
</tr>
</tbody>
</table>
# Technical Training

## Department

**Overall Vehicle**

## Title

T1271F • Vans • Parameterizable Special Module • Model Series 447 • Run

## Course Number

T1271F-AA

## Target group

System Technician

## Objectives

The participant can:
- Describe the installation location and the electrical connection of the PSM on the vehicle
- Parameterize the special module as specified by the customer order, under consideration of safety-relevant aspects

## Contents

- Design and function of the parameterizable special module (PSM)
- Standard codes, e.g. engine run-on
- Planning and implementation of freely selectable parameters
- Combined parameterization from logic functions such as the timer, counter, threshold switch, and hysteresis blocks
- Notes on product liability and safety

## Optional prerequisite

The participant is conversant with the operation and handling of the measuring and diagnosis equipment.

## Mandatory prerequisite

T0068E • Vans • Parameterizable Special Module (PSM) • e-Training • Run

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth

<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 40%, Practice 60%</th>
</tr>
</thead>
</table>

## Duration

1 day (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Overall Vehicle</td>
</tr>
<tr>
<td>Title</td>
<td>T1094E • smart • Qualification Program • 2014, 2015 • smart Technician • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1094E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician</td>
</tr>
</tbody>
</table>
| Objectives | > The participant's knowledge is determined for the competence areas.  
> An individualized qualification plan has been prepared.  
> The participant and supervisor are informed of the individual qualification path. |
| Contents | Theoretical test in the areas:  
> Drivetrain  
> Accident assessment technology  
> Soft top systems  
> Electric drive |
| Training Depth | Go | Method | Theorie 100%, Practice0% |
| Note | The test is part of the qualification program for smart Technicians. |
| Duration | 0 hours |
# Technical Training

**Department**  
Powertrain

**Title**  
T0081E • Passenger Cars • Current CDI Engines • e-Training • Go

**Course Number**  
T0081E-AA

**Target group**  
System Technician Powertrain

**Objectives**  
The participant:
- Is familiar with the design of the OM 651 and OM 642, and with the basic function of the systems and their components
- Can verify his/her knowledge by passing the e-Initial Test

**Contents**  
Basic and system knowledge regarding the design and function of:
- Mechanical engine components and engine control system
- Oil circuit
- Thermal management
- Fuel high and low-pressure systems
- Sensors and actuators in the subsystems
- Exhaust concept/exhaust treatment
- Peripheral systems, e.g. air ducting including charging
- e-Final Test with questions on the e-contents

**Training Depth**  
<table>
<thead>
<tr>
<th>Go</th>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
</table>

**Note**  
The current level of knowledge can be checked with the CBT programs "Common Rail Diesel Injection" Parts 1-3 (order no. 1290 4730 02, 1290 4731 02, 1290 4765 02).

**Duration**  
2,3 hours
### Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
</tr>
<tr>
<td>Title</td>
<td>T0103E • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Systems in Motor Vehicles – Awareness • e-Training • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0103E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician, Service Advisor</td>
</tr>
</tbody>
</table>
| Objectives | The participant can  
> Discuss the details of hybrid concepts and electric vehicles at Daimler AG  
> Figure out the requirements and effects for his/her service duties  
> Describe the first measures to take when working on hybrid and electric vehicles |
| Contents | Procedure on basic operations for hybrid and electric vehicles:  
> Comparison of the main hybrid and electric concepts at Daimler AG  
> Overview of the high-voltage components in the vehicle  
> Safety information: Effects of electricity on the human body  
> Repair operations and their effects on hybrid and electric vehicles |
| Training Depth | Go | Method | Theorie 100% |
| Note | This e-Training is the preparation for the high-voltage qualification for motor vehicles with high-voltage systems. |
| Duration | 1,5 hours |
# Technical Training

## Department
**Powertrain**

## Title
T0001F • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Qualification for Motor Vehicles • Go

## Course Number
T0001F-AA

## Target group
System Technician

## Objectives
1. Is able to work on high-voltage systems in accordance with BGV A3 and VDE 0105/ECE R105 in a well-informed, safe manner
2. Is familiar with the high-voltage concepts and technical background of the high-voltage components
3. Can explain the professional responsibilities and legal background
4. Can describe the procedure to remove voltage from the vehicle
5. Is familiar with the required safety precautions to prevent electrical shocks and arcs
6. Is familiar with necessary first aid measures

## Contents
- Laws and directives for working on high-voltage motor vehicles
- Safety information
- Effects of electrical current on the human body
- High-voltage components and high-voltage safety precautions
- Procedure for working on high-voltage motor vehicles
- First aid measures, rescue chain

## Mandatory prerequisite
T0103E • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Systems in Motor Vehicles – Awareness • e-Training • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth
Go

## Method
Theorie 70%, Practice 30%

## Note
The following prerequisites are defined by the Trade Association for qualification as a "Specialist for intrinsically safe high-voltage series production vehicles":

- Automotive mechanic, electrician, mechatronics engineer (with start of vocational training after 1973)
- Automotive foreperson ("master") for mechanical, electrical, mechatronic systems (master's examination taken after 1973)
- Automotive service technician with certification received after 1973
- Graduate engineer, bachelor's degree, master's degree, or state-certified technician for electrical engineering
- Automotive body mechanic, vehicle construction mechanic (with start of vocational training after 2002)
- Automotive body mechanic foreperson, vehicle construction mechanic foreperson (with master's examination taken after 2002)

IMPORTANT! Persons with electronic implants (e.g. pacemakers) are not permitted to work on high-voltage systems. They may not do any practical work on the HV system during training and are not HV-certified after the conclusion of training.
<table>
<thead>
<tr>
<th>Duration</th>
<th>1 day (per 8 hours)</th>
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</thead>
</table>

Mercedes-Benz Global Training
## Chapter

Technical Training

### Department

**Powertrain**

### Title

T1041E • Passenger Cars • Qualification Program • 2014, 2015 • Drivetrain System Technician • Initial Test • Go

### Course Number

T1041E-AA

### Target group

System Technician Powertrain

### Objectives

- The participant's knowledge is determined for the competence areas.
- An individual training plan is created for the competence area.
- The participant and supervisor are informed of the individual qualification path.

### Contents

Theoretical test in the areas:
- Engine
- Transmission

### Mandatory prerequisite

T1315E • Passenger Cars • Qualification Program • 2015 • Cross-System Competence for System Technicians • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth

<table>
<thead>
<tr>
<th>Go</th>
<th>Method</th>
<th>Theorie 100%, Practice 0%</th>
</tr>
</thead>
</table>

### Note

The test is part of the qualification program for Mercedes-Benz drivetrain system technicians.

### Duration

0 hours
Chapter Technical Training

Department Powertrain

Title T1033F • Passenger Cars • Qualification Program • 2014, 2015 • Powertrain System Technicians

Course Number T1033F-AA

Target group System Technician Powertrain

Objectives Participants qualify as powertrain system technicians. Participants receive a certificate following completion of the qualification program.

Contents

The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1041E-AA • Passenger Cars • Qualification Program • 2014, 2015 • Drivetrain System Technician • Initial Test • Go

> T0841E-AA • Passenger Cars • 6-/8-Cylinder Gasoline Engines • M276 and M278 • e-Training • Go
> T0873E-AA • Passenger Cars • 4-Cylinder Gasoline Engines • M270 and M274 • e-Training • Go
> T0874E-AA • Passenger Cars • Diesel Engines • OM607 • e-Training • Run
> T0081E-AA • Passenger Cars • Current CDI Engines • e-Training • Go
> T1003F-AA • Passenger Cars • Gasoline Engines • Emphasis on M270, M274 and M276, M278 • Diagnosis • Fly
> T1004F-AA • Passenger Cars • Diesel Engines • Emphasis on OM607, OM651 and OM642 • Diagnosis • Fly
> T1005F-AA • Passenger Cars • Gasoline and diesel engines • Diagnosis and Repair • Run
> T1006F-AA • Passenger Cars • Automatic Transmissions and All-Wheel Drive • Diagnosis and Repair • Run
> T1001F-AA • Passenger Cars • Manual Transmissions • Diagnosis and Repair • Run

> T1001F-FA • Passenger Cars • Qualification Program • 2014, 2015 • Drivetrain System Technician • Final Test • Fly

As soon as all your qualifications have been verified, you will receive your certificate.

Mandatory prerequisite T1315E • Passenger Cars • Qualification Program • 2015 • Cross-System Competence for System Technicians • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Training Depth Method Theorie 100%

Stand 11/2014 130
<table>
<thead>
<tr>
<th>Duration</th>
<th>17,0 days (per 8 hours)</th>
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</table>

Mercedes-Benz Global Training
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
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</thead>
<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
</tr>
<tr>
<td>Title</td>
<td>T1085E • Passenger Cars • Qualification Program • 2014, 2015 • Drivetrain System Technician • Final Test • Fly</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1085E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant’s knowledge is determined for the fields of competence.</td>
</tr>
<tr>
<td>Contents</td>
<td>This is an online test designed to assess the theoretical knowledge in the following fields:</td>
</tr>
<tr>
<td></td>
<td>&gt; Gasoline and diesel engines</td>
</tr>
<tr>
<td></td>
<td>&gt; Automatic and manual transmission</td>
</tr>
<tr>
<td></td>
<td>&gt; All-wheel drive systems</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Fly</td>
</tr>
<tr>
<td>Note</td>
<td>The test is part of the qualification program for Mercedes-Benz Drivetrain System Technicians.</td>
</tr>
<tr>
<td>Duration</td>
<td>0 hours</td>
</tr>
</tbody>
</table>
### Technical Training

**Department**  
Powertrain

**Title**  
T0874E • Passenger Cars • Diesel Engines • OM607 • e-Training • Run

**Course Number**  
T0874E-AA

**Target group**  
System Technician Powertrain

**Objectives**  
The participant can:
- Describe the design, the function and the peripherals of engine OM607
- Name the fundamental differences to other engines
- Explain the function of the peripheral systems
- Name the service-relevant work procedures

**Contents**  
Design and function of engine OM607

**Training Depth**  
Run | Method | Theorie 100%, Practice0%
---|---|---

**Note**  
The questions in the final test for the e-Training serve to check the knowledge gained during the course.

The e-Training was a mandatory BER course in 2012, with the training code T0493E. Successful completion of the e-Training with the previous training code T0493E will also be recognized in subsequent years.

**Duration**  
1,0 hours
## Technical Training

### Department
**Powertrain**

### Title
T1106F • Passenger Cars • Diesel Engines • OM626 • Diagnosis and Repair • Run

### Course Number
T1106F-AA

### Target group
System Technician Powertrain

### Objectives
The participant can:
- Carry out testing and adjustment operations
- Carry out diagnostic operations
- Initiate required remedial actions
- Carry out professional repairs

### Contents
The contents encompass practical and group work on design and function
- Mechanical engine components
- Sensors and actuators in the subsystems
- Networking of the control units and on-board diagnosis
- Exhaust concept/exhaust treatment
- Testing of injection systems and peripheral systems
- Use of service literature and workshop test equipment
- Diagnostic work with effects and remedies
- Key engine features compared to other diesel engines

### Training Depth
Run

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 30%, Practice70%</th>
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</thead>
<tbody>
<tr>
<td>Duration</td>
<td>Run</td>
<td>2,0 days (per 8 hours)</td>
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</table>

Mercedes-Benz Global Training
# Technical Training

## Department
**Powertrain**

## Title
T1004F • Passenger Cars • Diesel Engines • Emphasis on OM607, OM651 and OM642 • Diagnosis • Fly

## Course Number
T1004F-AA

## Target group
System Technician Powertrain

## Objectives
The participant can:
- Professionally accept a workshop order and check its contents regarding the complaint
- Create checklists to document and properly work through the individual steps/complaints
- Carry out difficult and complex diagnoses using the latest diagnostic tools
- Carry out a structured diagnosis
- Independently carry out complex, technically correct repair work using all work aids
- Carry out an independent final check of his/her repair work to ensure overall success

## Contents
Practical and group work on:
- Strategic approaches applying the five-level model for diagnosis, with emphasis on the OM607, OM651 and OM642
- Complex testing and diagnostic work on the engine system
- Multi-system diagnosis
- Effects of faults and their diagnosis, analysis and proper repair
- Targeted use of the service literature (WIS, XENTRY/DAS,TIPS, STI) and workshop test equipment (special tools)

## Training Depth
<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 20%, Practice80%</th>
</tr>
</thead>
</table>

## Duration
2,0 days (per 8 hours)
# Technical Training

**Department**: Powertrain  

**Title**: T1005F • Passenger Cars • Gasoline and diesel engines • Diagnosis and Repair • Run

**Course Number**: T1005F-AA

**Target group**: System Technician Powertrain

**Objectives**
The participant can:
- Carry out testing and adjustment operations
- Carry out diagnostic operations
- Initiate required remedial actions
- Carry out professional repairs

**Contents**
Practical and group work focusing on gasoline and diesel engines with regard to the design and function of:
- Mechanical engine components
- Sensors and actuators in the subsystems
- Control unit networking
- Exhaust concept/exhaust treatment
- Fuel, injection and ignition system, e.g. air ducting, fuel high- and low-pressure system
- Use of service literature and workshop test equipment
- Diagnostic work with effects and remedies

**Mandatory prerequisite**
- T0081E • Passenger Cars • Current CDI Engines • e-Training • Go
- T0841E • Passenger Cars • 6-/8-Cylinder Gasoline Engines • M276 and M278 • e-Training • Go
- T0873E • Passenger Cars • 4-Cylinder Gasoline Engines • M270 and M274 • e-Training • Go
- T0874E • Passenger Cars • Diesel Engines • OM607 • e-Training • Run

This training/test has to be booked, before you are authorized to book the main training. You'll find a detailed description about the training, using the training code.

**Training Depth**

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
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</table>
## Chapter

**Technical Training**

### Department

Powertrain

### Title

T1080F • Passenger Cars • Gasoline and Diesel Engines • Innovations • Fly

### Course Number

T1080F-AA

### Target group

System Technician Powertrain

### Objectives

The participant can:

- Develop a structured approach based on the presented customer complaints
- Work with the group to find solutions and use the opportunity to effectively broaden specific diagnostic skills
- State the new features and modifications in gasoline and diesel engines.

### Contents

The contents encompass practical and group work:

- Consolidation of the knowledge obtained in the previous engine training courses
- Analysis of current complaints on gasoline and diesel engines
- Problem and case discussions plus development of solution strategies
- New features and modifications in gasoline and diesel engines.

### Training Depth

| Fly | Theorie 30%, Practice70% |

### Note

The participant is qualified as a Drivetrain System Technician or is a Certified Diagnostic Technician.

The following items must be brought to the training course:

At least two real cases of engine complaints (solved or unsolved) from daily workshop work.

The case documentation should include at least:

- Repair order with vehicle data and customer complaint
- Vehicle history (vehicle file, VEGA, etc.)
- Initial quick test log and fault freeze frame data
- Initial evaluation of the workshop (customer interview)
- Test steps performed, with test results
- Image and sound documents as files (optional)

Please also bring a keychain of your choice.

### Duration

4,0 days (per 8 hours)
### Chapter

#### Technical Training

### Department

**Powertrain**

### Title

T0841E • Passenger Cars • 6-/8-Cylinder Gasoline Engines • M276 and M278 • e-Training • Go

### Course Number

T0841E-AA

### Target group

System Technician Powertrain

### Objectives

Participants are familiar with:
- The mechanical design of the engines and the peripherals
- The most important differences compared with the previous V engines M272 and M273
- The manner in which the peripheral systems function

### Contents

Basic and system knowledge regarding
- Mechanical design of engines and peripherals
- Fuel system (high and low-pressure)
- Mixture formation
- Ignition system
- Combustion system
- Chain drive
- Exhaust systems
- Engine control unit
- M278 turbocharger

### Training Depth

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go</td>
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</tbody>
</table>

### Note

Successful completion of the e-Training (PMNBM/T0082E) will also be recognized. Participants can test their level of knowledge using the CBT programs "Engine Control System" (order no. 1290 4012 02, 1290 4013 02), "Direct Injection" (1290 4038 02) and "V Gasoline Engines - Part 2" (1290 4063 02).

### Duration

2,3 hours
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
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<tr>
<td>Department</td>
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<tr>
<td>Title</td>
<td>T0873E • Passenger Cars • 4-Cylinder Gasoline Engines • M270 and M274 • e-Training • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0873E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
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<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the design, the function and the peripheral equipment on engines M270 and M274</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the fundamental differences to previous engines</td>
</tr>
<tr>
<td></td>
<td>&gt; Explain the manner in which the peripheral systems function</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the service-relevant work procedures</td>
</tr>
<tr>
<td>Contents</td>
<td>Design and Function of Engines M270 and M274.</td>
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<td>Go</td>
</tr>
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<td>Duration</td>
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</table>
### Chapter

#### Technical Training

### Department

**Powertrain**

### Title

T1003F • Passenger Cars • Gasoline Engines • Emphasis on M270, M274 and M276, M278 • Diagnosis • Fly

### Course Number

T1003F-AA

### Target group

System Technician Powertrain

### Objectives

The participant can:

> Professionally accept a workshop order and check its contents regarding the complaint
> Create checklists to document and properly work through the individual steps/complaints
> Carry out difficult and complex diagnoses using the latest diagnostic tools
> Carry out a structured diagnosis
> Independently carry out complex, technically correct repair work using all work aids
> Carry out an independent final check of his/her repair work to ensure overall success

### Contents

Practical and group work on:

> Strategic approaches applying the five-level model for diagnosis, with emphasis on the M270/M274 and M276/M278
> Complex testing and diagnostic work on the engine system
> Multi-system diagnosis
> Effects of faults and their diagnosis, analysis and proper repair
> Targeted use of the service literature (WIS, XENTRY/DAS,TIPS, STI) and workshop test equipment (special tools)

### Training Depth

<table>
<thead>
<tr>
<th>Fly</th>
<th>Method</th>
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### Duration

2,0 days (per 8 hours)
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<th>Chapter</th>
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<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
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<tr>
<td>Title</td>
<td>T0773F • Passenger Cars • AMG Gasoline Engine • M133 • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0773F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:  
  > Carry out testing and adjustment operations  
  > Carry out diagnostic operations  
  > Initiate required remedial actions  
  > Carry out professional repairs |
| Contents | Practical and group work on the topics:  
  > Mechanical design of engine and peripherals  
  > Fuel system (high and low-pressure)  
  > Mixture formation  
  > ME-SFI gasoline injection and ignition system  
  > Combustion system  
  > Chain drive  
  > Exhaust concept and exhaust treatment  
  > Ignition system  
  > Air ducting |
| Training Depth | Run  |
| Method | Theorie 30%, Practice 70% |
| Duration | 1 day (per 8 hours) |
# Technical Training

<table>
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<table>
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<table>
<thead>
<tr>
<th>Title</th>
<th>T0078E • Passenger Cars • Powertrain C197 • Dual Clutch Transmission • e-Training • Run</th>
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<table>
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<table>
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<th>Target group</th>
<th>System Technician Powertrain</th>
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<table>
<thead>
<tr>
<th>Objectives</th>
<th>The participant can:</th>
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<tbody>
<tr>
<td>&gt;</td>
<td>Describe the design of the dual clutch transmission</td>
</tr>
<tr>
<td>&gt;</td>
<td>Understand how shift operations work</td>
</tr>
<tr>
<td>&gt;</td>
<td>Name the hydraulic power shift and oil circuit</td>
</tr>
<tr>
<td>&gt;</td>
<td>Name the electronic components</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contents</th>
<th>&gt; Design of the dual clutch transmission</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;</td>
<td>Mechanical and hydraulic shift operations</td>
</tr>
<tr>
<td>&gt;</td>
<td>Electronic components</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Run</th>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Note</th>
<th>Successful completion of the e-Training with the previous training code EL 5049 will also be recognized. Participants can test their knowledge using the CBT program &quot;Dual Clutch Transmission&quot;.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Duration</th>
<th>1,5 hours</th>
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</table>

Stand 11/2014
## Technical Training

### Department
Powertrain

### Title
T0338F • Passenger Cars • 5-/7-Speed Automatic Transmission (722.6 NAT / 722.9 NAT2) • Diagnosis, Repair • Run

### Course Number
T0338F-AA

### Target group
System Technician Powertrain

### Objectives
The participant can:
- Describe the functions of the automatic transmission
- Perform test, adjustment and repair work
- Determine the wear of components and define their usability
- Flash the control unit and perform SCN coding
- Perform an initial startup on the DIRECT SELECT gearshift
- Assess adaptation values

### Contents
- Design and function of the automatic transmissions and DIRECT SELECT gearshift
- System diagnosis and repair
- Test, adjustment and repair work
- Disassembling the transmission, establishing findings, assembly and adjustment
- Flash the control unit
- SCN coding

### Mandatory prerequisite
T0035E • Passenger Cars • Automatic Transmissions • 5-/7-Speed (722.6 NAG/722.9 NAG2) • e-Initial test • Run
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 30%, Practice70%</th>
</tr>
</thead>
</table>

### Note
Participants can check their current level of knowledge using the CBT programs "Fundamentals of New Automatic Transmissions" Parts 1-3 (order no. 1290 4744 00, 1290 4745 00, 1290 4752 00).
The training concludes with a final test.

### Duration
2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Powertrain</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0888E • Passenger Cars • 9-Speed Automatic Transmission (725.0) • e-Training • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0888E-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the design of the 9-speed automatic transmission 724.0</td>
</tr>
<tr>
<td></td>
<td>&gt; Understand how shift operations work</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the hydraulic power shift and oil circuit</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the electronic components</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the service-relevant work procedures</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>&gt; Design and function of the 9-speed automatic transmission (725.0)</td>
</tr>
<tr>
<td></td>
<td>&gt; Mechanical and hydraulic shift operations</td>
</tr>
<tr>
<td></td>
<td>&gt; Electronic components</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Run</td>
</tr>
<tr>
<td><strong>Note</strong></td>
<td>The questions in the final test for the e-Training serve to check the knowledge gained during the course.</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
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</tbody>
</table>
### Chapter: Technical Training

#### Department: Powertrain

#### Title: T1036F • Passenger Cars • 9-Speed Automatic Transmission (725.0) • Diagnosis and Repair • Run

#### Course Number: T1036F-AA

#### Target group: System Technician Powertrain

#### Objectives

The participant can:

- Describe the functions of the automatic transmission
- Perform test, adjustment and repair work
- Determine the wear of components and define their usability
- Flash the control units
- Describe the main innovations on the transmission
- State the differences compared to the 7-speed automatic transmission

#### Contents

- Design and function of the 9-speed automatic transmission (725.0)
- System diagnosis and repair
- Test, adjustment and repair work
- Disassembling the transmission, establishing findings, assembly and adjustment
- Flashing the control unit

#### Mandatory prerequisite

T0888E • Passenger Cars • 9-Speed Automatic Transmission (725.0) • e-Training • Run

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

#### Training Depth

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 30%, Practice 70%</th>
</tr>
</thead>
</table>

#### Note

Participants can test their level of knowledge using the CBTs on "Fundamentals of New Automatic Transmissions – Parts 1-3 (order no. 1290 4744 02, 1290 4745 02, 1290 4752 02)."
The training concludes with a final test.

#### Duration

2.0 days (per 8 hours)
## Technical Training

### Department
**Powertrain**

### Title
T1006F • Passenger Cars • Automatic Transmissions and All-Wheel Drive • Diagnosis and Repair • Run

### Course Number
T1006F-AA

### Target group
System Technician Powertrain

### Objectives
The participant can:
- Describe the functions of the automatic transmissions and all-wheel drive systems
- Perform test, adjustment and repair work
- Determine the wear of components and define their usability
- Flash the control unit and perform SCN coding
- Assess adaptation values

### Contents
- Design and function of automatic transmissions and all-wheel drive systems
- System diagnosis and repair
- Test, adjustment and repair work
- Disassembling the transmission, establishing findings, assembly and adjustment
- Relationships between the transfer case, differential and 4-ESP subsystems
- Flash the control unit
- SCN coding

### Training Depth
Run: 30%, Practice: 70%

### Note
Participants can test their level of knowledge using the following CBTs:
- Automatic Transmissions: "Fundamentals of New Automatic Transmissions - Parts 1-3" (order no. 1290 4744 00, 1290 4745 00, 1290 4752 00).
- All-Wheel Drive: "Drive System Technology" Parts 1-4 (order no. 1290 4721, 1290 4008, 1290 4009, 1290 4016) and "Dynamic Handling Control Systems for Passenger Cars and Commercial Vehicles" Part 1-3 (1290 4023, 12904310, 1290 4726).
- The training concludes with a final test.

### Duration
4,0 days (per 8 hours)
### Technical Training

<table>
<thead>
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<th>Chapter</th>
<th>Technical Training</th>
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<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
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<tr>
<td>Title</td>
<td>T1107F • Passenger Cars • Automatic Transmission • 700.4 • Diagnosis and Repair • Run</td>
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<tr>
<td>Target group</td>
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<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the functions of the transmission</td>
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<tr>
<td></td>
<td>&gt; Perform test, adjustment and repair work</td>
</tr>
<tr>
<td></td>
<td>&gt; Determine the wear of components and define their usability</td>
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<tr>
<td>Contents</td>
<td>&gt; Design and function of the dual clutch transmission (700.4)</td>
</tr>
<tr>
<td></td>
<td>&gt; System diagnosis and repair</td>
</tr>
<tr>
<td></td>
<td>&gt; Test, adjustment and repair work</td>
</tr>
<tr>
<td></td>
<td>&gt; Disassembling the transmission, establishing findings, assembly and adjustment</td>
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<td>Mandatory prerequisite</td>
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<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run Method</td>
</tr>
<tr>
<td></td>
<td>Theorie 30%, Practice70%</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day (per 8 hours)</td>
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</table>
# Technical Training

**Department**  
Powertrain

**Title**  
T0347F • Passenger Cars • Automatic and manual transmissions • Exchange of experience • Fly

**Course Number**  
T0347F-AA

**Target group**  
System Technician Powertrain

## Objectives

- Describe new features/modifications regarding automatic and manual transmissions
- Name current complaints and remedies
- Carry out diagnostic steps and adaptation

## Contents

- New features/modifications in 5-speed (722.6) and 7-speed-automatic transmissions (722.9) as well as in continuously variable automatic transmissions (722.8) CVT
- New features/modifications to the manual transmission
- Exchange of experience with notes on current complaints and remedies
- Diagnosis of transmissions
- Adaptation
- 7G-DCT dual clutch transmission
- Dual clutch transmission in model series 197

## Training Depth

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
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<tbody>
<tr>
<td>Fly</td>
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</table>

## Note

- The participant has completed training course "T0338F • Passenger Cars • 5-/7-speed Automatic Transmissions (722.6 NAT/ 722.9 NAT2 ) • Diagnosis, Repair • Run" and has good knowledge in the field of transmissions.
- The problem cases brought along by the participants are discussed during the training course.

## Duration

2,0 days (per 8 hours)
## Chapter

### Technical Training

<table>
<thead>
<tr>
<th>Department</th>
<th>Powertrain</th>
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<tbody>
<tr>
<td>Title</td>
<td>T1001F • Passenger Cars • Manual Transmissions • Diagnosis and Repair • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1001F-AA</td>
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<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
</tbody>
</table>

### Objectives

- The participant can:
  - Describe the functions of manual transmissions
  - Perform test, adjustment and repair work with system diagnosis
  - Determine the wear of components and define their usability
  - Perform diagnosis work on the transmission

### Contents

- Design and function of the rear/front-wheel drive manual transmission
- Design and function of the dual clutch transmission
- Disassembling the manual transmission, determining condition, assembly and adjustment

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Run</th>
<th>Method</th>
<th>Theorie 30%, Practice 70%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note</td>
<td>The current level of knowledge can be checked with the CBT programs &quot;Automated Manual Transmission&quot; Parts 1-2 (order No. 1290 4732, 1290 4733) and &quot;Dual Clutch Transmission&quot; (order No. 1290 4073). The training concludes with a final test.</td>
<td></td>
<td></td>
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<td>Duration</td>
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<tr>
<td>Chapter</td>
<td>Technical Training</td>
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<tr>
<td><strong>Target group</strong></td>
<td>System Technician</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; Indicate system relationships using automatic logic diagrams</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; Perform diagnosis on the traction management system and carry out corrective actions</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>&gt; Define test procedures according to the connected systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; Test sensors and actuators with multimeter and oscilloscope</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>&gt; Gasoline injection system</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; CDI injection system</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; Clutch and transmission control</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; Diagnosis of engine, transmission and clutch management</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mandatory prerequisite</strong></td>
<td>T0500F • smart • smart fortwo Introduction • Go</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Run</td>
<td>Method</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Theorie 20%, Practice 80%</td>
<td></td>
</tr>
<tr>
<td><strong>Note</strong></td>
<td>Training begins with an initial test and ends with a final test. The initial test must be passed in order to take the final test.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>3,0 days (per 8 hours)</td>
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</tbody>
</table>
### Technical Training

**Department**  
Powertrain

**Title**  
T0840F • smart • smart fortwo electric drive Model Series 451 • Go

**Course Number**  
T0840F-AA

**Target group**  
System Technician

**Objectives**  
The participant can  
- Name the differences between the smart fortwo electric drive and conventional drivetrains  
- Describe the function of the control and display concept  
- Describe the basic functions of the drivetrain components  
- Remove voltage from the smart fortwo electric drive  
- Describe the scopes of maintenance operations

**Contents**  
- Design and function of the smart fortwo electric drive drivetrain  
- Control and display concept  
- Maintenance and repair work as well as initial diagnostic steps  
- Removing voltage from the vehicle  
- Presentation of special tools for the smart fortwo electric drive

**Mandatory prerequisite**  
T0001F • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Qualification for Motor Vehicles • Go  
T0481E • smart • Market Launch • smart fortwo electric drive • e-Training • Go  
This training/test has to be booked, before you are authorized to book the main training.  
You’ll find a detailed description about the training, using the training code.

**Training Depth**  
Go  
**Method**  
Theorie 30%, Practice 70%

**Duration**  
2,0 days (per 8 hours)
## Technical Training

### Chapter

#### Department

**Powertrain**

#### Title

T1064E • Vans • Qualification Program • 2015 • Chassis System Technicians • Initial Test • Go

#### Course Number

T1064E-AA

#### Target group

System Technician Powertrain

#### Objectives

- The participant's knowledge is determined for the competence area.
- An individual qualification plan is created for the competence area.
- The participant and supervisor are informed of the individual qualification path.

#### Contents

Theoretical test covering the following subjects:

- Suspension systems
- Steering and axles
- Vehicle alignment

#### Mandatory prerequisite

T1265E • Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

#### Training Depth

<table>
<thead>
<tr>
<th>Go</th>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
</table>

#### Note

The test is part of the qualification program for Mercedes-Benz drivetrain system technicians.

#### Duration

0 hours
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
</tr>
<tr>
<td>Title</td>
<td>T1139E • Vans • Qualification Program • 2014, 2015 • Powertrain System Technician • Initial Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1139E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
</tbody>
</table>
| Objectives | > The participant's knowledge is determined for the competence area.  
> An individual training plan is created for the competence area.  
> The participant and supervisor are informed of the individual qualification path. |
| Contents | Theoretical test covering the following subjects:  
> CDI engines  
> Automatic transmission  
> Manual transmission |
| Mandatory prerequisite | T1265E • Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go  
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code. |
| Training Depth | Go  
Method | Theorie 100%, Practice0% |
<p>| Note | The test is part of the qualification program for Mercedes-Benz Powertrain System Technicians. |
| Duration | 0 hours |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
</tr>
<tr>
<td>Title</td>
<td>T1069E • Vans • Qualification Program • 2014, 2015 • Powertrain System Technician • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1069E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant’s knowledge is determined for the competence areas.</td>
</tr>
</tbody>
</table>
| Contents | Theoretical test covering the following subjects:  
> CDI engines  
> Automatic transmission  
> Manual transmission |
| Training Depth | Go | Method | Theorie 100%, Practice0% |
| Note | The test is part of the qualification program for Mercedes-Benz Powertrain System Technicians. |
| Duration | 0 hours |
## Technical Training

### Department
Powertrain

### Title
T0182F • Vans • Automatic Transmission • Sprinter BR 906, Vito and Viano BR 639 • Run

### Course Number
T0182F-AA

### Target group
System Technician Powertrain

### Objectives
The participant can:
- Identify the components of the automatic transmissions
- Explain the operation, design and function of the automatic transmissions
- Carry out targeted diagnostic, repair and adjustment operations

### Contents
- Operation of NAT1 and NAT2 automatic transmissions
- Design and function of the automatic transmissions
- Fault diagnosis and elimination of faults on the vehicle using the latest diagnostic systems
- Disassembly of the automatic transmissions
- Interaction of the transmissions with other systems

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 50%, Practice 50%</th>
</tr>
</thead>
</table>

### Note
The participant has completed basic training course *T0179F • Trucks, Vans • Star Diagnosis • Level I • Go* and basic training course *P0019F • WIS/ASRA 3 for Workshop Specialists • Go* or has equivalent knowledge.

### Duration
2,0 days (per 8 hours)
Technical Training

Department: Powertrain

Title: T0184F • Vans • Manual Transmissions TSG 360, TSG 480 and Axle Drive BM 741 • Run

Course Number: T0184F-AA

Target group: System Technician Powertrain

Objectives: The participant can:
> Disassemble and assemble the transmissions and the rear axle
> Inspect components and determine necessary repair scopes
> Perform necessary test and adjustment operations

Contents:
> Design of transmissions TSG 360, TSG 480, GK5, GK6
> Disassembly and assembly of transmissions and rear axle BM 741
> Fault diagnosis
> Testing and adjustment work with the aid of special tools and current service literature

Optional prerequisite: The participant has completed basic training course "X0164F • WIS/ASRA for Parts Specialists • Module 2.1 • Go" or has equivalent knowledge.

Training Depth: Run
Method: Theorie 30%, Practice 70%

Duration: 2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
</tr>
<tr>
<td>Title</td>
<td>T0427F • Vans • Manual and Automatic Transmissions • Diagnosis, Adjustment Operations and Exchange of Experience • Sprinter BR 906 and Vito/Viano BR 639 • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0427F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the particularities of the mechanical transmission components in the TSG 360 and TSG 480</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe current new features and modifications in the field of manual and automatic transmissions</td>
</tr>
<tr>
<td></td>
<td>&gt; Detect faults in the electrical system</td>
</tr>
<tr>
<td></td>
<td>&gt; Prepare a fault diagnosis using practical examples</td>
</tr>
<tr>
<td></td>
<td>&gt; Evaluate damage profiles to perform targeted repair</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform adjustment operations</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Differences between the TSG 360 and TSG 480 manual transmissions</td>
</tr>
<tr>
<td></td>
<td>&gt; Diagnosis on the vehicle</td>
</tr>
<tr>
<td></td>
<td>&gt; Examining damaged parts</td>
</tr>
<tr>
<td></td>
<td>&gt; Testing electrical components</td>
</tr>
<tr>
<td></td>
<td>&gt; Adjustment operations on the manual and automatic transmissions</td>
</tr>
<tr>
<td></td>
<td>&gt; New features and modifications in manual and automatic transmissions</td>
</tr>
<tr>
<td></td>
<td>&gt; Exchange of experience</td>
</tr>
<tr>
<td>Optional prerequisite</td>
<td>The participant has attended training courses &quot;T0184F • Vans • Manual Transmissions TSG 360, TSG 480 and Axle Drive BM 741 • Run&quot; and &quot;T0182F • Vans • Automatic Transmissions • Sprinter BR 906, Vito/Viano BR 639 • Run&quot;.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 60%, Practice 40%</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

## Chapter

### Department

**Powertrain**

### Title

T0270F • Vans • Sprinter • Natural Gas Technology (NGT) and Liquefied Gas Technology (LGT) • Run

### Course Number

T0270F-AA

### Target group

System Technician Powertrain

### Objectives

The participant can:
- Describe the design of the new 4-cylinder gasoline engine (M271) in the NGT and LGT Sprinters
- Describe the design of the gas system and its special features
- Describe the different functions of the engine technology and gas system used in the NGT and LGT Sprinters
- Perform diagnosis, test and repair work

### Contents

- Vehicle operation
- Special features/differences from the conventional type of drives
- Mechanical engine components
- Installation location of engine management and gas system components
- Design and function of engine management and the gas system
- Adjustment, diagnosis and repair work on the engine and gas system

### Mandatory prerequisite

T0290F • Passenger Cars, Trucks, Vans • Gaseous Fuel Vehicles • Certificate of Competence • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth

<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 50%, Practice 50%</th>
</tr>
</thead>
</table>

### Note

The participant has completed basic training course "T0290F • Passenger Cars, Trucks, Vans • Gaseous Fuel Vehicles • Certificate of Competence • Go" or has an equivalent "Certification for Vehicles with Gas Drives". The corresponding certificate must be brought along to the training course. Participation is only possible if the certificate of competence is available at the beginning of the training course. The certificate cannot be submitted afterwards!

### Duration

2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Title</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0170F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:  
> Identify the components of the ignition and injection system  
> Explain the design and function of the current gasoline engines  
> Carry out targeted diagnostic, repair and adjustment operations  
> Name the special features of the mechanical engine components |
| Contents | > Mechanical engine components  
> Ignition and injection system  
> Fuel circuit  
> Air intake  
> Exhaust aftertreatment  
> Adjustment, diagnosis and repair work  
> Interaction with other systems |
| Optional prerequisite | The participant has basic knowledge of gasoline engines and wiring diagrams.  
He/she has completed training course "T0179F • Trucks, Vans • Star Diagnosis • Level I • Go" and "P0019F • WIS/ASRA 3 for Workshop Specialists • Go" or has equivalent knowledge. |
| Training Depth | Run |
| Method | Theorie 50%, Practice 50% |
| Duration | 2,0 days (per 8 hours) |
# Technical Training

**Department**  
Powertrain

**Title**  
T1048F • Vans • Gasoline Engines • Citan BR 415 and Sprinter BR 906 Facelift • Run

**Course Number**  
T1048F-AA

**Target group**  
System Technician Powertrain

## Objectives

The participant can:

> Identify the components of the ignition and injection system
> Explain the design and function of the current gasoline engines
> Carry out targeted diagnostic, repair and adjustment operations
> Name the special features of mechanical engine components

## Contents

> Mechanical engine components
> Ignition and injection system
> Fuel circuit
> Air intake
> Exhaust aftertreatment
> Adjustment, diagnosis and repair instructions

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 50%, Practice50%</th>
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</thead>
<tbody>
<tr>
<td>Duration</td>
<td>Run</td>
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<tr>
<td></td>
<td>1 day (per 8 hours)</td>
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</tbody>
</table>
# Technical Training

## Department
- **Powertrain**

## Title
- T1056F • Vans • Diesel Engines • OM607, OM651, OM642 • Run

## Course Number
- T1056F-AA

## Target group
- System Technician Powertrain

## Objectives
- The participant can:
  - Describe the main differences in the mechanical engine components on individual engines
  - Explain the design and basic function of a CDI system
  - Describe differences between CDI systems
  - Describe the current design and function of the air intake, charging, exhaust gas recirculation and exhaust aftertreatment
  - Use DAS/XENTRY

## Contents
- Special features of the mechanical engine components
- Injection systems
- Fuel circuit
- Charging
- Exhaust aftertreatment, diesel particulate filter
- Air intake, exhaust gas recirculation
- Testing and diagnostic work
- Interaction of the injection system with the peripheral systems

## Optional prerequisite
- Prior to the course, we recommend completing these CBT online programs: "T0645E (W4766) • Passenger Cars, Trucks, Vans • CBT • Common Rail Direct Injection • Part 4 • e-Test • Go", "T0578E (W4067) • Passenger Cars • CBT • New 4-Cylinder Diesel Engine OM651 • e-Test • Go".

## Training Depth
- **Run**
- **Method**
- Theorie 50%, Practice 50%

## Duration
- 2,0 days (per 8 hours)
## Technical Training

### Department
**Powertrain**

### Title
T1067F • Vans • Diesel Engines and Manual Transmissions • Citan BR 415 and Sprinter BR 906 • Modifications and New Features • Run

### Course Number
T1067F-AA

### Target group
System Technician Powertrain

### Objectives
The participant can:
- Describe the main features of mechanical engine and transmission components
- Explain the design and basic function of the CDI system
- Describe the design and function of the air intake, charging, exhaust gas recirculation and exhaust aftertreatment for the uprated OM607 engine
- Describe the integration of the exhaust aftertreatment systems in the networking scheme
- Describe the design and function of the exhaust aftertreatment systems (EGR) and SCR (selective catalytic reduction) for the Sprinter
- Describe the sensors and actuators used by the exhaust aftertreatment systems as well as the NOx monitoring function
- Perform diagnosis, testing and adjustment operations

### Contents
This training course focuses on modifications/new features for the OM607, the new Citan 6-speed manual transmission (GK6) as well as Sprinter SCR technology (Euro 6).
Details:
- Special considerations for mechanical engine and transmission components
- Injection system, fuel circuit and charging
- Air intake and exhaust gas recirculation
- Interaction of the injection system with peripheral systems
- Design and function of the exhaust aftertreatment system (AGR) and selective catalytic reduction (SCR) in combination with Sprinter engine management (BR 906)
- Effects of engine management malfunctions on the exhaust aftertreatment system and NOx monitoring
- Testing, diagnostic and adjustment operations on the engine, transmission and SCR technology

### Training Depth
*Run*

<table>
<thead>
<tr>
<th>Theorie</th>
<th>Practice</th>
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<td>40%</td>
<td>60%</td>
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</table>

### Duration
2,0 days (per 8 hours)
## Technical Training

### Department
- **Powertrain**

### Title
- T1270F • Vans • Diesel Engines and Transmissions • Model Series 447 Engine OM622 and Manual Transmission FSG350 • Run

### Course Number
- T1270F-AA

### Target group
- System Technician Powertrain

### Objectives
- The participant can:
  - Describe the main features of mechanical engine and transmission components
  - Describe the design and function of the air intake, engine charging, exhaust gas recirculation and exhaust aftertreatment
  - Generate a targeted transmission diagnosis

### Contents
- Special considerations for mechanical engine and transmission components
- Injection system OM622
- Fuel circuit
- Engine charging
- Exhaust aftertreatment
- Air intake and exhaust gas recirculation
- Testing and repair operations on the engine and transmission
- Testing and adjustment operations on the engine and transmission

### Training Depth
- **Run Method**
- Theorie 40%, Practice 60%

### Duration
- 2,0 days (per 8 hours)
# Technical Training

<table>
<thead>
<tr>
<th>Department</th>
<th>Powertrain</th>
</tr>
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<tbody>
<tr>
<td>Title</td>
<td>T1297E • Trucks • Qualification Program • Drivetrain System Technicians • Initial Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1297E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
</tbody>
</table>
| Objectives | > The participant's knowledge is determined for the competence area.  
> An individual training plan is created for the competence area.  
> The participant and supervisor are informed of the individual qualification path. |
| Contents | Theoretical test covering the following subjects:  
> Transmission management  
> Exhaust aftertreatment  
> Engine management  
> Parameterization |
| Mandatory prerequisite | T1267E • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go  
This training/test has to be booked, before you are authorized to book the main training.  
You’ll find a detailed description about the training, using the training code. |
| Training Depth | Go  
Method | Theorie 100%, Practice0% |
| Note | The test is part of the qualification series to become a Certified Mercedes-Benz Drivetrain System Technician. |
| Duration | 0 hours |
Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
</tr>
<tr>
<td>Title</td>
<td>T1296E • Trucks • Qualification Program • 2015 • Powertrain System Technician • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1296E-AA</td>
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<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant’s knowledge is determined for the competence area.</td>
</tr>
<tr>
<td>Contents</td>
<td>Theoretical test covering the following subjects:</td>
</tr>
<tr>
<td></td>
<td>&gt; Engine management</td>
</tr>
<tr>
<td></td>
<td>&gt; Exhaust aftertreatment</td>
</tr>
<tr>
<td></td>
<td>&gt; Transmission management</td>
</tr>
<tr>
<td></td>
<td>&gt; Parameterization</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Note</td>
<td>The test is part of the qualification series to become a Certified Mercedes-Benz Powertrain System Technician.</td>
</tr>
<tr>
<td>Duration</td>
<td>0 hours</td>
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</table>
## Chapter

**Technical Training**

### Department

**Powertrain**

### Title

T0429F • Trucks • Gaseous Fuel Engines • Natural gas engine OM906 LAG • Run

### Course Number

T0429F-AA

### Target group

System Technician Powertrain

### Objectives

The participant can:

> Describe the changes in the mechanical engine components and engine control system of gaseous fuel engine OM906 LAG compared to diesel engine OM906 LA
> Describe the special considerations with regard to the maintenance of the gaseous fuel engine OM906 LAG
> Describe the design and function of the gas system in the vehicle
> Perform fault diagnosis and repair work
> Carry out testing and adjustment operations

### Contents

> Mechanical design of the gaseous fuel engine OM906 LAG
> Design and function of the injection system on the engine OM906 LAG
> Functional principle of the gas system in the vehicle
> Diagnosing faults, performing component repairs (injection system, gas system)
> Test and adjustment work using the current service aids

### Training Depth

<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 50%, Practice50%</th>
</tr>
</thead>
</table>

### Note

The participant has the qualifications to work on gas systems "T0290F • Passenger Cars, Trucks, Vans • Gaseous Fuel Vehicles • Certificate of Competence • Go".

### Duration

2,0 days (per 8 hours)
# Technical Training

## Course Information

<table>
<thead>
<tr>
<th>Department</th>
<th>Powertrain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>T0294F • Trucks • Telligent® Engine Systems • Model Series 900, 457, 500 • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0294F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
</tbody>
</table>

### Objectives

The participant can:
- Describe the actuation of fan systems for engine cooling, engine brake management, the turbobrake and the flame starting system
- Perform a test on the air compressor
- Describe the routing of the fuel circuits on model series 900, 457 and 500 and differentiate between them for diagnostic purposes
- Devise own diagnosis strategies and perform diagnoses based on complaints and symptoms
- Perform inspection, adjustment and repair work

### Contents

- Design and function:
  - Power take-off control
  - Thermal management
  - Differences and similarities of the various fuel systems
  - SCR exhaust aftertreatment, including NOx regulation
  - Enhanced Environmental Vehicle (EEV) information module
- Performing test and adjustment work using the current service aids (DAS, WIS)
  - Fault diagnosis based on practical examples
  - Air compressor test

### Optional prerequisite

The participant has successfully completed training courses "T0179F • Trucks, Vans • Star Diagnosis • Level I • Go", "P0019F • WIS/ASRA 3 for Workshop Specialists • Go", "T0004F • Passenger Cars, Trucks, Vans, smart • Diagnosis Strategy 1 • Go" and "T0146F • Trucks • Actros Road Vehicle • Go" or has equivalent knowledge.

### Mandatory prerequisite

T0086E • Trucks • Telligent® Engine Systems • Model Series 900, 457, 500 • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 25%, Practice 75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run</td>
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<td></td>
</tr>
</tbody>
</table>

### Duration

2,0 days (per 8 hours)
## Technical Training

### Department
**Powertrain**

### Title
T1254F • Trucks • Parameterizable Special Module • Basic Parameterizations • Run

### Course Number
T1254F-AA

### Target group
System Technician Powertrain

### Objectives
The participant can:

- Describe the application area and the tasks of the parameterizable special module (PSM)
- Describe the basic design
- Use simple functions described in the workshop literature
- Parameterize simple PTOs on the customer's request in the PSM, SCA and Single SAM control units
- Perform diagnoses
- Recognize the hazards associated with incorrect parameterization

### Contents

- Applications for the parameterizable special module (PSM)
- Linking logics in the PSM, Single SAM and SCA
- Inputs and outputs on the PSM
- Basic functions of the PSM
- Use of workshop literature for parameterization
- Practical exercises on simple PTO programming

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 20%, Practice 80%</th>
</tr>
</thead>
</table>

### Duration
2,0 days (per 8 hours)
**Chapter**  
**Technical Training**

<table>
<thead>
<tr>
<th>Department</th>
<th>Powertrain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>T0256F • Trucks • Parameterizable Special Module (PSM) • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0256F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
</tbody>
</table>

**Objectives**  
The participant can:
- Describe the application area and the tasks of the PSM (parameterizable special module)
- Understand the basic design
- Describe the design and function of the parameterizable special module and its integration in the onboard electrical system in current truck models
- Use functions described in the workshop literature
- Manage PSM data records
- Parameterize the special module as specified in the customer order and perform relevant diagnoses

**Contents**
- Application area
- Combinational logics in the PSM
- Inputs and outputs on the PSM
- Functions in the PSM
- Control of complex power take-offs
- Use of workshop literature
- Managing PSM data records
- Practice-oriented parameterization exercises using the service literature
- Performing actual vehicle parameterizations via the PSM

**Optional prerequisite**
The participant has successfully completed training courses "T0179F • Trucks, Vans • Star Diagnosis • Level I • Go", "P0019F • WIS/ASRA 3 for Workshop Specialists • Go", "T0004F • Passenger Cars, Trucks, Vans, smart • Diagnosis Strategy 1 • Go" and "T0146F • Trucks • Actros Road Vehicle • Go" or has equivalent knowledge.

**Training Depth**
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 40%, Practice60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,0 days (per 8 hours)</td>
<td></td>
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</table>
# Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Powertrain</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0430F • Trucks • Parameterization • Actros Model Series 963 • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0430F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the application area and the tasks of the parameterizable special module (PSM)</td>
</tr>
<tr>
<td></td>
<td>&gt; Understand the basic design</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the design and function of the parameterizable special module and its integration in the on-board electrical system in the new truck</td>
</tr>
<tr>
<td></td>
<td>&gt; Retrofit the PSM</td>
</tr>
<tr>
<td></td>
<td>&gt; Use functions described in the workshop literature</td>
</tr>
<tr>
<td></td>
<td>&gt; Manage PSM data records</td>
</tr>
<tr>
<td></td>
<td>&gt; Parameterize the PSM as specified by the customer order under consideration of safety-relevant aspects</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform diagnoses</td>
</tr>
<tr>
<td></td>
<td>&gt; Recognize the hazards associated with incorrect parameterization</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>&gt; PSM applications</td>
</tr>
<tr>
<td></td>
<td>&gt; Combinational logics in the PSM</td>
</tr>
<tr>
<td></td>
<td>&gt; Inputs and outputs on the PSM</td>
</tr>
<tr>
<td></td>
<td>&gt; Functions in the PSM</td>
</tr>
<tr>
<td></td>
<td>&gt; Control of complex power take-offs</td>
</tr>
<tr>
<td></td>
<td>&gt; Use of workshop literature</td>
</tr>
<tr>
<td></td>
<td>&gt; Managing PSM data records</td>
</tr>
<tr>
<td></td>
<td>&gt; Practice-oriented parameterization exercises using the service literature</td>
</tr>
<tr>
<td></td>
<td>&gt; Performing actual vehicle parameterizations via the PSM</td>
</tr>
<tr>
<td><strong>Optional prerequisite</strong></td>
<td>The participant has successfully completed training courses &quot;T0179F • Trucks, Vans • Star Diagnosis • Level I • Go&quot;, &quot;P0019F • WIS/ASRA 3 for Workshop Specialists • Go&quot;, &quot;T0004F • Passenger Cars, Trucks, Vans, smart • Diagnosis Strategy 1 • Go&quot; and &quot;T0146F • Trucks • Actros Road Vehicle • Go&quot; or has equivalent knowledge.</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Run Method</td>
</tr>
<tr>
<td></td>
<td>Theorie 20%, Practice80%</td>
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<tr>
<td><strong>Duration</strong></td>
<td>4,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
## Technical Training

### Department
Powertrain

### Title
T1250F • Trucks • Parameterizable Special Module • Parameterizing Complex Bodies • Fly

### Course Number
T1250F-AA

### Target group
System Technician Powertrain

### Objectives
The participant can:
- State the new features/modifications on the PSM
- Describe the PSM design and its functions
- Retrofit the PSM control unit
- Describe and apply the "data record management" function
- Perform complex parameterizations at the customer’s request

### Contents
- Modifications and new features on the parameterizable special module (PSM)
- Functions in the PSM
- Retrofitting the PSM
- Controlling complex PTOs
- Managing PSM data records
- Performing complex vehicle parameterizations via the PSM

### Optional prerequisite
Trucks • Parameterizable Special Module • Basic Parameterizations

### Training Depth
Fly

### Method
Theorie 20%, Practice 80%

### Duration
2,0 days (per 8 hours)
# Technical Training

## Department
**Powertrain**

## Title
T0101E • Trucks • New Star of Long-Distance Transport • Engine Management BR 471 • e-Training • Go

## Course Number
T0101E-AA

## Target group
System Technician Powertrain

## Objectives
The participant can:
- Describe the basic design of the model series 470 common rail technology
- Name the sensors and actuators used for engine management and describe their design
- Describe the integration of the engine management system in the networking scheme
- Describe how the thermal management system works
- Describe the function of the exhaust gas recirculation system
- Describe the changes in the SCR system

## Contents
- Fuel circuit design
- Vehicle networking
- Design and function of actuators and sensors
- Exhaust gas recirculation
- Innovations in the SCR system
- Thermal management

## Training Depth
<table>
<thead>
<tr>
<th>Theorie</th>
<th>Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>0%</td>
</tr>
</tbody>
</table>

## Method
Go

## Note
This e-Training is a mandatory prerequisite for attending the advanced training course "T0295F • Trucks • Engine Management BR 471 • The New Actros Long-Distance Truck • Run".

## Duration
1,0 hours
Technical Training

Department: Powertrain

Title: T0755F • Trucks • Engine Management • OM470, OM471 and OM936 • Run

Course Number: T0755F-AA

Target group: System Technician Powertrain

Objectives
- The participant can:
  > Describe the basic mechanical design of engines OM470, OM471 and OM936
  > Understand the design and function of the fuel system and common rail technology
  > Describe the task of sensors and actuators used by the engine management system
  > Describe the integration of the engine management system in the networking scheme
  > Understand the design and function of the engine management system
  > Independently perform diagnosis on the engine management system
  > Carry out testing and adjustment operations

Contents
- Basic mechanical design of engines OM470, OM471 and OM936
- Design and function of the engine management and its integration in the network
- Design and function of the fuel system and common rail system
- Effects of malfunctions in engine management on the exhaust aftertreatment systems and the NOx monitoring system (e.g. torque limitation)
- Diagnosis, test and adjustment work using the current service aids

Mandatory prerequisite: T0101E • Trucks • New Star of Long-Distance Transport • Engine Management BR 471 • e-Training • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Training Depth: Run
Method: Theorie 40%, Practice 60%

Duration: 2,0 days (per 8 hours)
# Technical Training

## Department
Powertrain

## Title
T0754F • Trucks • Engine Management and Exhaust Aftertreatment • OM934, OM936, OM470, OM471 and OM473 • Run

## Course Number
T0754F-AA

## Target group
System Technician Powertrain

## Objectives
The participant can:
- Describe the basic mechanical design of the engines OM934, OM936, OM470, OM471 and OM473
- Describe the mode of operation of the common rail technology
- Describe the mode of operation of the exhaust aftertreatment system
- Understand the design and function of the fuel system and common rail system
- Describe the task of the sensors and actuators used by the engine management and exhaust aftertreatment systems
- Describe the integration of the engine management and exhaust aftertreatment systems in the networking scheme
- Understand the design and function of the engine management and exhaust aftertreatment systems
- Independently perform diagnosis on the engine management system including the exhaust aftertreatment system
- Carry out testing and adjustment operations

## Contents
- Basic mechanical design of the engines OM934, OM936, OM470, OM471 and OM473
- Design and function of the engine management and its integration in the network
- Design and function of the exhaust aftertreatment system
- Design and function of the common rail technology
- Effects of malfunctions in engine management on the exhaust aftertreatment systems and the NOx monitoring system (e.g. torque limitation)
- Diagnosis, test and adjustment work using the current service aids

## Mandatory prerequisite
T0101E • Trucks • New Star of Long-Distance Transport • Engine Management BR 471 • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
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</thead>
<tbody>
<tr>
<td>Theorie 40%, Practice 60%</td>
<td></td>
</tr>
</tbody>
</table>

## Duration
4,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
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<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Powertrain</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0753F • Trucks • Diesel Engines • OM936 and OM471 • Repair • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0753F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can inspect components and use WIS to plan and perform repair scopes</td>
</tr>
</tbody>
</table>
| **Contents**     | > Mechanical design of the OM936 and OM471 engines  
|                  | > Partial disassembly of engines  
|                  | > Current repair work on the components  
|                  |   - Mechanical engine components (crank assembly, valve assembly, etc.)  
|                  |   - Oil circuits  
|                  |   - Fuel circuits  
|                  |   - Exhaust gas recirculation |
| **Optional prerequisite** | The participant has good basic knowledge of mechanical engine components. |
| **Training Depth** | Run  
| **Method**       | Theorie 20%, Practice 80% |
| **Duration**     | 4,0 days (per 8 hours) |
**Chapter**

**Technical Training**

**Department**

Powertrain

**Title**

T1046F • Trucks • Gaseous Fuel Engines • Natural gas engine M 936 G in the Econic • Run

<table>
<thead>
<tr>
<th>Course Number</th>
<th>T1046F-AA</th>
</tr>
</thead>
</table>

**Target group**

System Technician Powertrain

**Objectives**

The participant can:

- Explain and carry out the maintenance required for the gaseous fuel engine M 936 G
- Describe the design and function of the gas system in the vehicle
- Perform fault diagnosis and repair work
- Carry out testing and adjustment operations

**Contents**

- Mechanical design of the gaseous fuel engine M 936 G
- Design and function of the injection system on the engine M 936 G
- Functional principle of the gas system in the vehicle
- Diagnosing faults, performing component repairs (injection system, gas system)
- Test and adjustment work using the current service aids

**Training Depth**

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Run</th>
<th>Method</th>
<th>Theorie 50%, Practice50%</th>
</tr>
</thead>
</table>

**Note**

The participant has the qualifications to work on gas systems "T0290F • Passenger Cars, Trucks, Vans • Gaseous Fuel Vehicles • Certificate of Competence • Go".

**Duration**

2,0 days (per 8 hours)
# Technical Training

## Department
**Powertrain**

## Title
**T0293F • Trucks • Mechanical Engine Components Repair • Model Series 900, 457, 500 • Run**

## Course Number
T0293F-AA

## Target group
System Technician Powertrain

## Objectives
The participant can:
- Pinpoint malfunctions in mechanical engine components
- Inspect components and use WIS to plan and understand repair scopes

## Contents
- Mechanical design of the model series 900, 457 and 500 engines
- Turbobrake function
- Partial disassembly of engines
- Current repair work on the components:
  - Mechanical engine components (crank assembly, valve assembly, etc.)
  - Oil circuits
  - Fuel circuits
  - Charge air systems and compressor systems
  - Electrically controlled water pump

## Optional prerequisite
The participant has good basic knowledge of mechanical engine components.

## Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 20%, Practice 80%</th>
</tr>
</thead>
</table>

## Note
Participants can test and refresh their knowledge using the CBTs "Pump-Line-Nozzle" Parts 1-2 (order no. 1290 4307 02 and 1290 4308 02) and "Engine Series 500, 900, 457" Parts 1-2 (1290 4322 02 and 1290 4323 02).

## Duration
5.0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Powertrain</td>
</tr>
<tr>
<td>Title</td>
<td>T0266F • Trucks • Mercedes-Benz Range-Change Transmission • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0266F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Disassemble and assemble the transmissions using the service aids (WIS and special tools)</td>
</tr>
<tr>
<td></td>
<td>&gt; Inspect transmission components and use WIS to plan and implement the necessary repair scopes</td>
</tr>
<tr>
<td></td>
<td>&gt; Carry out testing and adjustment operations</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Mechanical design of the Mercedes-Benz synchromesh range-change transmissions G 131, G 210 - G 260</td>
</tr>
<tr>
<td></td>
<td>&gt; Mechanical design of the Mercedes-Benz non-synchromesh range-change transmissions G 211, G 241, G 280, G 330</td>
</tr>
<tr>
<td></td>
<td>&gt; Disassembling/assembling a synchromesh range-change transmission</td>
</tr>
<tr>
<td></td>
<td>&gt; Disassembling/assembling a non-synchromesh range-change transmission</td>
</tr>
<tr>
<td></td>
<td>&gt; Diagnosing faults, performing component repairs (shift shafts, synchronization, etc.)</td>
</tr>
<tr>
<td></td>
<td>&gt; Test and adjustment work using the current service aids</td>
</tr>
<tr>
<td>Optional prerequisite</td>
<td>The participant has successfully completed the CBTs &quot;Telligent Gearshift - Parts 1-2&quot; and &quot;Telligent Automatic Gearshift - Parts 1-2&quot; as preliminary training.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td></td>
<td>Method</td>
</tr>
<tr>
<td>Note</td>
<td>As preliminary training, please complete the CBTs &quot;Telligent® Gearshift&quot;, Parts 1-2 (order no. 1290 4305 02 and 1290 4306 02) and &quot;Telligent® Automatic Gearshift&quot; Parts 1-2 (1290 4320 02 and 1290 4324 02).</td>
</tr>
<tr>
<td>Duration</td>
<td>4,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
### Technical Training

**Department**  
Powertrain

**Title**  
T0778F • Trucks • Manual Gearshift Systems • The Actros for distribution and construction site transport and the Atego Euro VI standard • Run

**Course Number**  
T0778F-AA

**Target group**  
System Technician Powertrain

**Objectives**  
The participant can:
- Describe the integration of the manual gearshift system in the on-board electrical system
- Describe the interplay between the manual gearshift system and the drive control systems
- Describe the design and individual functions of the CPC control unit with a manual gearshift system
- Describe the design and function of the manual gearshift system with and without power-assisted gear shifting
- Describe the design and function of the clutch, clutch adjusting mechanism and clutch operation
- Describe modifications to the transmission

**Contents**  
- Integration of the manual gearshift system in the overall networking scheme
- Interplay between the manual gearshift system and the drive control systems
- Design and individual functions of the CPC control unit with a manual gearshift system
- Design and function
  - of the manual gearshift system with and without power-assisted gear shifting
  - of the clutch, clutch adjusting mechanism and clutch operation
- Fault diagnosis and adjustment operations on the manual gearshift system components

**Training Depth**  
Run Method  
Theorie 40%, Practice 60%

**Duration**  
1 day (per 8 hours)
# Technical Training

## Department
Powertrain

## Title
T0296F • Trucks • Transmission Management with Automated Shift • Actros Model Series 963 • Run

## Course Number
T0296F-AA

## Target group
System Technician Powertrain

### Objectives
The participant can:
- Describe the integration of the new transmission management system in the networking scheme
- Describe the design and individual functions of the control units for drive control, adaptive drive control and gear control
- Describe the design and function of the new clutch operating mechanism
- Describe the design and function of the new automated shifting system
- Describe the interaction of the transmission and drive control systems
- Describe and assess exemplary input and output signals on control units and components of the gearshift systems
- Evaluate actual values and the associated driving situations
- Use DAS to identify and eliminate the effects of mechanical faults on the gearshift system
- Perform a diagnosis on the transmission management systems
- Perform test, adjustment and repair work

### Contents
- Design and individual functions of the control units for drive control, adaptive drive control and gear control
- Design and function of the new clutch operating mechanism
- Design and function of the new automated shifting system
- Presentation of the G140-8
- Testing, adjustment, parameterization, diagnosis and repair of the new automated shifting system with the aid of the current service aids (DAS, WIS)
- Fault diagnosis based on practical examples

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

### Duration
2,0 days (per 8 hours)
## Technical Training

**Department**  
Powertrain

**Title**  
T1049F • Trucks • Transmission • G 140, G 141, G 211 • Repair • Run

**Course Number**  
T1049F-AA

**Target group**  
System Technician Powertrain

**Objectives**
The participant can:
- Explain the function and design of different detachable parts such as sensors, transmission positioner and countershaft brakes
- Properly disassemble the main transmission using the correct service aids and set specified fit sizes during assembly
- Properly disassemble and assemble the main shaft in accordance with regulations and state special considerations associated with the components
- Inspect transmission components and use WIS to plan and explain the necessary repair scopes

**Contents**
- Professional disassembly and assembly of synchromesh and non-synchromesh transmissions with the G 140, G 141, G 211
- Structure and function of the cable shift and transmission positioner
- Inspection of transmission components and definition of necessary repair scopes
- Test and adjustment work using the current service aids in WIS

**Training Depth**  
Run Method Theorie 30%, Practice 70%

**Duration**  
4,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Index</th>
<th>Technical Training</th>
</tr>
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<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Powertrain</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0189F • Trucks • Voith Retarder • Control and Mechanical Components • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0189F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician Powertrain</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td>&gt; Design and function of the Voith retarder models 115H and 115HV with their current controls</td>
<td></td>
</tr>
<tr>
<td>&gt; Testing/adjustment operations and diagnosis on the Voith retarder 115 HV</td>
<td></td>
</tr>
<tr>
<td>&gt; Maintenance and repair</td>
<td></td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>&gt; Describe the retarder control functions in networked systems</td>
</tr>
<tr>
<td>&gt; Describe and evaluate input and output signals in electrical/electronic components</td>
<td></td>
</tr>
<tr>
<td>&gt; Perform a diagnosis for the retarders and retarder controls</td>
<td></td>
</tr>
<tr>
<td>&gt; Perform test, adjustment and repair work on the retarders</td>
<td></td>
</tr>
<tr>
<td><strong>Optional prerequisite</strong></td>
<td>The participant has worked through the CBT program &quot;Wiring Diagrams&quot; Part 1 (order no. 1290 4722&quot;, &quot;Wiring Diagrams&quot; Part 3 (1290 4312) and &quot;CAN Fundamentals&quot; (1290 4716) or has equivalent knowledge.</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Run</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
# Technical Training

## Department
Powertrain

## Title
T0137F • Trucks • BlueTEC HYBRID • Atego • Go

## Course Number
T0137F-AA

## Target group
System Technician Powertrain

## Objectives
The participant can:
- Communicate the environmental advantages of using the innovative drive technology in the Atego BlueTEC HYBRID
- Operate the vehicles and analyze how, e.g., customers actually operate them
- Explain the task and mode of operation of individual system components
- Apply the customer support concept for service purposes
- Initiate safety measures for certain types of work on the vehicle
- Perform a power disconnect and startup for the high-voltage system
  - and professionally use the appropriate special tools
- Perform any diagnoses required using Star Diagnosis
- Perform practical work on the components of the high-voltage system
  - and bleed the cooling circuit of the e-machine
  - and exchange the battery air filter on the power electronics carrier (PEC)

## Contents
- Advantages of using a hybrid drive system in trucks
- System operation
- Task and function of system components
- Function of the system
- Safety when working on the vehicle
- Customer support concept in the service sector
- Practical work

## Mandatory prerequisite
T0001F • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Qualification for Motor Vehicles • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth
Go | Method | Theorie 45%, Practice55%

## Note
IMPORTANT! Persons with electronic implants (e.g. pacemakers) are not permitted to work on high-voltage systems. They may not do any practical work on the HV system during training and are not HV-certified after the conclusion of training.

## Duration
1 day (per 8 hours)
# Technical Training

**Department**  
Powertrain

**Title**  
T1081F • Trucks • Engines and Transmissions • New Features and Modifications • Actros, Arocs, Atego Euro VI (Model Series 963, 964, 967) • Run

**Course Number**  
T1081F-AA

**Target group**  
System Technician Powertrain

**Objectives**  
The participant can:
- Describe new features and modifications in the current engine model series OM 93x and OM 47x
- Describe the design of the new transmission
- Name the latest transfer case generation
- Perform repair work on the transfer case
- Describe the design and function of the new all-wheel Hydraulic Auxiliary Drive
- Perform repair work on the retarder

**Contents**  
- New features and modifications in the current engine model series
- New stronger transmission
- Current transfer case generation
- New all-wheel Hydraulic Auxiliary Drive
- Retarder repair

**Training Depth**  
Run | Method | Theorie 50%, Practice 50%

**Duration**  
2,0 days (per 8 hours)
### Technical Training

**Department**  
**Powertrain**

**Title**  
T0519F • FUSO • Canter Eco Hybrid • Go

**Course Number**  
T0519F-AA

**Target group**  
System Technician Powertrain

**Objectives**  
The participant can:
- Communicate the environmental advantages of using the innovative drive technology in the Canter Eco Hybrid
- Operate the vehicles and analyze, for example, how customers actually operate them
- Explain the task and mode of operation of individual system components
- Apply the customer support concept for service purposes
- Initiate safety measures for certain types of work on the vehicle
- Perform a power disconnect and startup for the high-voltage system
- Correct use of special tools
- Perform any diagnoses required using Star Diagnosis and Fuso Diagnosis
- Perform practical work on the components of the high-voltage system

**Contents**  
- Advantages of using a hybrid drive system in trucks
- System operation
- Task and function of system components
- Function of the system
- Safety when working on the vehicle
- Customer support concept in the service sector
- Practical work

**Mandatory prerequisite**  
T0001F • Passenger Cars, Trucks, Vans, smart, FUSO • High-Voltage Qualification for Motor Vehicles • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**  
Go

**Method**  
Theorie 45%, Practice 55%

**Note**  
IMPORTANT! Persons with electronic implants (e.g. pacemakers) are not permitted to work on high-voltage systems. They may not do any practical work on the HV system during training and are not HV-certified after the conclusion of training.

**Duration**  
1 day (per 8 hours)
Stand 11/2014

Chapter

Technical Training

Department

Chassis and Active Safety

Title

T0368F • Passenger Cars • Qualification Program • 2014, 2015 • Chassis System Technicians

Course Number

T0368F-AA

Target group

System Technician Driving Stability

Objectives

Participants qualify as chassis system technicians. Participants receive a certificate following completion of the qualification program.

Contents

The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T0368P-AA • Passenger Cars • Qualification Program • 2014, 2015 • Chassis System Technicians • Competency Analysis

> T0258F-AA • Passenger Cars • Suspension Systems • Diagnosis, Repair • Run

> T0307F-AA • Passenger Cars, smart • Chassis Alignment • Run

> T0344F-AA • Passenger Cars • Brake Control and Active Driving Assistance Systems • Diagnosis and Repair • Run

> T0076E-AA • Passenger Cars • Brake Control and Active Driving Assistance Systems • e-Training • Run

> T0839E-AA • Passenger Cars • Qualification Program • 2014, 2015 • Suspension System Technician • Final Test • Fly

As soon as all your qualifications have been verified, you will receive your certificate.

Mandatory prerequisite

T1315E • Passenger Cars • Qualification Program • 2015 • Cross-System Competence for System Technicians • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%</th>
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</thead>
<tbody>
<tr>
<td>Duration</td>
<td>6,5 days (per 8 hours)</td>
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<tr>
<td>Chapter</td>
<td>Technical Training</td>
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<tr>
<td>Department</td>
<td>Chassis and Active Safety</td>
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</tr>
<tr>
<td>Title</td>
<td>T0839E • Passenger Cars • Qualification Program • 2014, 2015 • Suspension System Technician • Final Test • Fly</td>
<td></td>
</tr>
<tr>
<td>Course Number</td>
<td>T0839E-AA</td>
<td></td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Driving Stability</td>
<td></td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant's knowledge is determined for the fields of competence.</td>
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<tr>
<td>Contents</td>
<td>This is an online test designed to assess the theoretical knowledge in the following fields:</td>
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<tr>
<td></td>
<td>&gt; Suspension</td>
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<td></td>
<td>&gt; Active safety systems</td>
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<tr>
<td>Training Depth</td>
<td>Fly</td>
<td></td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 100%, Practice0%</td>
<td></td>
</tr>
<tr>
<td>Note</td>
<td>The test is part of the qualification program for Mercedes-Benz Chassis System Technicians.</td>
<td></td>
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<tr>
<td>Duration</td>
<td>0 hours</td>
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</tbody>
</table>
### Technical Training

#### Chassis and Active Safety

**Title**  
T0258F • Passenger Cars • Suspension Systems • Diagnosis, Repair • Run

**Course Number**  
T0258F-AA

**Target group**  
System Technician Driving Stability

**Objectives**  
The participant can:
> Describe the design, function and operation of the ABC (S-Class/CL-Class, W221/CL216)
> Perform diagnosis on the suspension systems
> Diagnose faults in the networking
> Properly use the Diagnosis Assistance System (DAS) and Measurement Technology (HMS) test tools

**Contents**  
> Design, function and diagnosis of the suspension systems AIRMATIC, Dual Control and ABC
> Diagnosis of the suspension systems AIRMATIC Dual Control and ABC
> Integration of suspension systems into the vehicle networking
> Use of Diagnosis Assistance System (DAS) and Measuring Technology (HMS) diagnostic tools
> Adjustment of vehicle level

**Training Depth**  
Run  
| Method | Theorie 40%, Practice 60% |

**Note**  
Participants can test their knowledge using the CBT programs "Air Suspension Systems" Parts 1-2 (order no. 1290 4032, 1290 4033) and "Active Body Control" Parts 1-2 (1290 4025, 1290 4024). The training concludes with a final test.

**Duration**  
2,0 days (per 8 hours)
Technical Training

Chassis and Active Safety

Title
T0404F • Vans • Qualification Program • 2014 • Chassis System Technicians

Course Number
T0404F-AA

Target group
System Technician Driving Stability

Objectives
The participant qualifies as a Chassis System Technician. The participant receives a certificate following completion of the qualification program.

Contents
The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T0684E-AA • Vans • Qualification Program • 2014 • Chassis System Technicians • Initial Test • Go

> T0142F-AA • Trucks, Vans • Vehicle alignment • Go
> T0173F-AA • Vans • Chassis and Driving Assistance Systems • Sprinter Model Series 906, Vito/Viano Model Series 639 • Run

> T0883E-AA • Vans • Qualification Program • 2014 • Chassis System Technicians • Final Test • Go

As soon as all your qualifications have been verified, you will receive your certificate.

Optional prerequisite
Before signing up for the qualification program, you should have good knowledge of systematic troubleshooting procedures and of the workshop systems, including Star Diagnosis. Good knowledge of the on-board electrical system and vehicle networking is also required.

You can obtain or refresh this knowledge by attending the following training courses:

> T0004F • Passenger Cars, Trucks, Vans, smart • Diagnosis Strategy 1 • Go
> P0019F • WIS/ASRA 3 for Workshop Specialists • Go
> P0022F • VeDoc with Read Function • Go
> T180F • Trucks, Vans • Star Diagnosis Level II • Run
> T0250F • Vans • On-Board Electrical Systems, System Networking, Instrumentation • Sprinter (Model Series 906), Vito/Viano (Model Series 639) • Run

Mandatory prerequisite
T1099E • Vans • Qualification Program • 2014 • Cross-System Competence for System Technicians • Final test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Training Depth

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 100%</th>
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<tbody>
<tr>
<td>Duration</td>
<td>4,0 days (per 8 hours)</td>
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<tr>
<td>Chapter</td>
<td>Technical Training</td>
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<tr>
<td>---------------------------</td>
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<tr>
<td><strong>Department</strong></td>
<td>Chassis and Active Safety</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0173F • Vans • Chassis and Driving Assistance Systems • Sprinter Model Series 906, Vito/Viano Model Series 639 • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0173F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician Driving Stability</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Explain the design and function of the chassis systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the variants and functions of the all-wheel drive systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Carry out targeted diagnosis, repair and adjustment operations</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>&gt; Electronic level control</td>
</tr>
<tr>
<td></td>
<td>&gt; Brake systems</td>
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<tr>
<td></td>
<td>- Hydraulics</td>
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<td></td>
<td>- Pneumatics</td>
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<td></td>
<td>&gt; Driving assistance systems</td>
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<td></td>
<td>&gt; Steering and axles</td>
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<td></td>
<td>&gt; All-wheel drive</td>
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<td></td>
<td>&gt; Low frame chassis</td>
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<td></td>
<td>&gt; Diagnosis and repair work</td>
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<tr>
<td><strong>Optional prerequisite</strong></td>
<td>The participant has completed the basic training courses &quot;T0179F • Trucks, Vans • Star Diagnosis • Level I • Go&quot; and &quot;P0019F • WIS/ASRA 3 for Workshop Specialists • Go&quot; or has equivalent knowledge.</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Run</td>
</tr>
<tr>
<td></td>
<td>Method</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>2,0 days (per 8 hours)</td>
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</tbody>
</table>
Technical Training

Department: Chassis and Active Safety
Title: T1059F • Trucks • Qualification Program • 2014, 2015 • Suspension System Technicians
Course Number: T1059F-AA
Target group: System Technician Driving Stability
Objectives: Participants qualify as suspension system technicians. Participants receive a certificate following completion of the qualification program.

Contents:
The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1059P-AA • Trucks • Qualification Program • 2014, 2015 • Suspension System Technicians • Competency Analysis
> T0142F-AA • Trucks, Vans • Vehicle alignment • Go
> T0151F-AA • Trucks • Air Brake Systems • Go
> T0152F-AA • Trucks • Chassis/Suspension Systems • ASA (Additional Steering Axle) and CLCS (Chassis Level Control System) • Actros BR 963 • Run
> T0762F-AA • Trucks • Electronic Brake System (EBS) • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run
> T1065E-AA • Trucks • Qualification Program • 2014, 2015 • Suspension System Technician • Final Test • Go

As soon as all your qualifications have been verified, you will receive your certificate.

Mandatory prerequisite: T1267E • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Training Depth
Method
Theorie 100%

Duration: 8,0 days (per 8 hours)
# Technical Training

## Department
**Chassis and Active Safety**

## Title
T1061E • Trucks • Qualification Program • 2014 • Suspension System Technician • Initial Test • Go

## Course Number
T1061E-AA

## Target group
System Technician Driving Stability

## Objectives
- The participant’s knowledge is determined for the competence areas.
- An individual training plan is created for the competence area.
- The participant and supervisor are informed of the individual qualification path.

## Contents
Theoretical test covering the following subjects:
- Electronic air-processing unit (EAPU)
- Additional steering axle (ASA)
- Chassis Level Control System (CLCS)
- Electronic brake system (EBS)
- Chassis alignment

## Mandatory prerequisite
T1267E • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth
<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
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</thead>
<tbody>
<tr>
<td>Go</td>
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</table>

## Note
The test is part of the qualification program for Mercedes-Benz Suspension System Technicians.

## Duration
0 hours
## Technical Training

### Department
Chassis and Active Safety

### Title
T1065E • Trucks • Qualification Program • 2014, 2015 • Suspension System Technician • Final Test • Go

### Course Number
T1065E-AA

### Target group
System Technician Driving Stability

### Objectives
The participant's knowledge is determined for the competence areas.

### Contents
Theoretical test covering the following subjects:
- Brake systems
- Suspension systems
- Wheel alignment

### Training Depth
Go  Method  Theorie 100%, Practice 0%

### Note
The test is part of the qualification program for Mercedes-Benz Suspension System Technicians.

### Duration
0 hours
Technical Training

Chassis and Active Safety

Title
T1298Q • Trucks • Qualification Program • 2015 • Drivetrain System Technicians • Initial Test

Course Number
T1298Q-AA

Target group
System Technician Driving Stability

Objectives
The participant qualifies as a Drivetrain System Technician. Participants receive a certificate following completion of the qualification program.

Contents
The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1298P-AA • Trucks • Qualification Program • 2015 • Drivetrain System Technicians • Initial Test • Competency Analysis

> T0101E-AA • Trucks • New Star of Long-Distance Transport • Engine Management BR 471 • e-Training • Go

> T0754F-AA • Trucks • Engine Management and Exhaust Aftertreatment • OM934, OM936, OM470, OM471 and OM473 • Run

> T1221F-AA • Trucks • Transmission • Shifting systems • Run

> T1254F-AA • Trucks • Parameterizable Special Module • Basic Parameterizations • Run

> T1296E-AA • Trucks • Qualification Program • 2015 • Powertrain System Technician • Final Test • Go

As soon as all your qualifications have been verified, you will receive your certificate.

Mandatory prerequisite
T1261Q • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technicians

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%</th>
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</thead>
<tbody>
<tr>
<td>Duration</td>
<td>8.0 days (per 8 hours)</td>
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</tbody>
</table>
# Technical Training

## Title
T0142F • Trucks, Vans • Vehicle alignment • Go

## Course Number
T0142F-AA

## Target group
System Technician Driving Stability

## Objectives
The participant can:
- Mechanically/electronically align the frame and chassis of two, three and four-axle vehicles
- Check and evaluate axle steering parts and tires

## Contents
- Fundamentals of vehicle alignment
- Mechanical frame alignment
- Electronic wheel alignment check on three and four axle vehicles and on vehicles with independent wheel suspension (Sprinter model series 906)
- Checking and adjusting the wheels/axles according to current service literature
- Fault diagnosis and assessment of faults in handling characteristics and tire wear

## Optional prerequisite
The participant has successfully completed training courses "T0179F • Trucks, Vans • Star Diagnosis • Level I • Go", "P0019F • WIS/ASRA 3 for Workshop Specialists • Go", "T0004F • Passenger Cars, Trucks, Vans, smart • Diagnosis Strategy 1 • Go" and "T0146F • Trucks • Actros Road Vehicle • Go" or has equivalent knowledge.

## Training Depth
Go | Method | Theorie 30%, Practice70%

## Note
The participant has successfully completed the CBT program "Fundamentals of Steering Systems" Part 2 (order no. 1290 4718).

## Duration
2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
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<tbody>
<tr>
<td>Technical Training</td>
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<table>
<thead>
<tr>
<th>Department</th>
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<tr>
<td>Chassis and Active Safety</td>
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<table>
<thead>
<tr>
<th>Title</th>
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<tbody>
<tr>
<td>T1042F • Trucks • Suspension Systems • Steering Systems and Chassis Level Control System (CLCS) • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run</td>
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</table>

<table>
<thead>
<tr>
<th>Course Number</th>
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<tbody>
<tr>
<td>T1042F-AA</td>
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<tr>
<th>Target group</th>
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<tbody>
<tr>
<td>System Technician Driving Stability</td>
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<table>
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<tr>
<th>Objectives</th>
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<tbody>
<tr>
<td>The participant can perform test, adjustment and repair work using current diagnosis and workshop information systems independently and efficiently.</td>
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</table>

<table>
<thead>
<tr>
<th>Contents</th>
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</thead>
<tbody>
<tr>
<td>Design and function of</td>
</tr>
<tr>
<td>&gt; Steering systems</td>
</tr>
<tr>
<td>- Additional steering axle (ASA)</td>
</tr>
<tr>
<td>- Dual-circuit steering system</td>
</tr>
<tr>
<td>- Chassis Level Control System (CLCS)</td>
</tr>
<tr>
<td>&gt; Practical work on the chassis/suspension systems</td>
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<tr>
<th>Method</th>
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<tbody>
<tr>
<td>Theorie 40%, Practice 60%</td>
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<table>
<thead>
<tr>
<th>Duration</th>
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<tr>
<td>2,0 days (per 8 hours)</td>
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</tbody>
</table>
# Technical Training

**Department:** Chassis and Active Safety  
**Title:** T0151F • Trucks • Air Brake Systems • Go  
**Course Number:** T0151F-AA  
**Target group:** System Technician Driving Stability

## Objectives
The participant can:
- Describe the design of pneumatic brake systems
- Explain the function of pneumatic brake systems
- Assign components to the function groups using the service literature and understand their functions
- Perform function tests on brake system components
- Conduct general function tests on brake systems in accordance with legal requirements

## Contents
- Design of pneumatic service brake and parking brake systems
- Function of the components for service brakes and parking brakes
- Testing efficiency and function in accordance with legal requirements
- Implementing service literature
- Reading function schematics
- Use of measuring tools and test tools

## Training Depth
<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 50%, Practice50%</th>
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<tr>
<td>Go</td>
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</table>

## Note
To refresh your knowledge, we recommend completing the CBTs "Air Brake Systems Part 1" (order no. 1290 4316 02) and "Air Brake Systems Part 2" (1290 4317 02).

## Duration
3,0 days (per 8 hours)
## Chapter

### Technical Training

### Department

**Chassis and Active Safety**

### Title

T1043F • Trucks • Brake Systems • Air Brake Systems • Run

### Course Number

T1043F-AA

### Target group

System Technician Driving Stability

### Objectives

The participant can:

- Describe the design of pneumatic brake systems
- Explain the function of pneumatic brake systems
- Assign components to the function groups using the service literature and understand their functions
- Perform function tests on brake system components
- Conduct general function tests on brake systems in accordance with legal requirements

### Contents

- Design of pneumatic service brake and parking brake systems
- Function of the components for service brakes and parking brakes
- Testing efficiency and function in accordance with legal requirements
- Using the service literature
- Reading function schematics
- Use of measuring tools and test tools

### Training Depth

Run

Method

Theorie 60%, Practice 40%

### Duration

1 day (per 8 hours)
### Technical Training

**Department**  
Chassis and Active Safety

**Title**  
T0150F • Trucks • Telligent® Brake System BS2 • Run

**Course Number**  
T0150F-AA

**Target group**  
System Technician Driving Stability

**Objectives**  
The participant can:
- Describe the design of the EAPU
- Explain and understand the functions in the EAPU
- Check the pressure retainer of the EAPU according to manufacturer specifications
- Describe how the EAPU is integrated in vehicle networking
- Perform potential work and diagnoses on the EAPU with Star Diagnosis
- Describe the system design of the Telligent® brake system BS2
- Name the individual system components and their tasks
- Explain the special functions in the system design of the Telligent® brake system BS2
- Explain additional functions and special equipment in the BS2
- Perform target-oriented function tests on individual components
- Independently diagnose malfunctions based on case examples with the aid of the current diagnosis and workshop information systems

**Contents**  
- Design and function of:
  - Electronic Air-Processing Unit EAPU
  - Telligent® brake system BS2
- Special functions of Telligent® brake system BS2, such as the hill holder
- Testing of system functions and individual system components
- Fault diagnoses

**Mandatory prerequisite**  
T0045E • Trucks • Telligent® Brake System BS2 • e-Initial Test • Run

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**  
| Run | Theorie 45%, Practice 55% |

**Note**  
As a prerequisite for this training course, the participant has successfully completed the training course "T0151F • Trucks • Air Brake Systems • Go" or has equivalent knowledge.

Participants can refresh their knowledge in preparation for the e-Initial Test by working through the CBTs "Compressed-Air Braking Units – Fundamentals" (order no. 1290 4348 02) and "Compressed-Air Brakes – Reading Pneumatic Function Diagrams" (1290 4316 02).

**Duration**  
2,0 days (per 8 hours)
# Technical Training

## Chassis and Active Safety

### Title
T0149F • Trucks • Telligent® Level Control System (NR) • Run

### Course Number
T0149F-AA

### Target group
System Technician Driving Stability

### Objectives
- Explain the system design of the Telligent® level control system in various vehicle configurations
- Name the components of the Telligent® level control system and their tasks
- Explain the mode of operation of the Telligent® level control system
- Perform a targeted check of the system components using diagnostic systems
- Calibrate the driving level in acc. with manufacturer specifications
- Explain the special functions of the Telligent® level control system
- Retrofit the compulsory lowering system
- Explain the system design and the operating principles of roll control
- Adjust the parameters in the Telligent® level control system electronics
- Perform a targeted check of individual system components using diagnostic systems

### Contents
- Design and function of the Telligent® level control system
- System components of the Telligent® level control system
- Special functions of the Telligent® level control system
- Design and function of the roll control (WR)
- Mode of operation of the axle load indicator
- System function testing of the Telligent® level control system and individual system components
- Calibration of the Telligent® level control system
- Fault diagnoses

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 45%, Practice 55%</th>
</tr>
</thead>
</table>

### Note
As a prerequisite for this training course, the participant has successfully completed the training course T0151F (Trucks • Air Brake Systems • Go) or has equivalent knowledge. To refresh your knowledge, you can use the CBT 1290 4316 "Air Brake Systems – Reading Pneumatic Function Diagrams".

### Duration
2.0 days (per 8 hours)
# Technical Training

## Chassis and Active Safety

### Title
T1263F • Vans, Trucks • Wheel Alignment • Sprinter Model Series 906, Actros, Antos Model Series 963, Arocs Model Series 964, Antos Model Series 967 • Go

### Course Number
T1263F-AA

### Target group
System Technician Driving Stability

### Objectives
The participant can:
- Mechanically/electronically align the frame and chassis of two, three and four-axle vehicles
- Check and evaluate axle steering parts and tires

### Contents
- Fundamentals of wheel alignment
- Mechanical frame alignment
- Electronic wheel alignment check on three and four-axle vehicles and on vehicles with independent wheel suspension (Sprinter BR 906)
- Checking and adjusting the wheels/axles according to current service literature
- Fault diagnosis and assessment of faults in handling characteristics and tire wear

### Training Depth
| Go | Method | Theorie 40%, Practice60% |

### Note
The participant has successfully completed the CBT program "Fundamentals of Steering Systems" Part 2 (order no. 1290 4718).

### Duration
2,0 days (per 8 hours)
**Chapter**

Technical Training

**Department**

Chassis and Active Safety

**Title**

T1295Q • Vans • Qualification Program • 2015 • Suspension System Technicians

**Course Number**

T1295Q-AA

**Target group**

System Technician Driving Stability

**Objectives**

Participants qualify as suspension system technicians. Participants receive a certificate following completion of the qualification program.

**Contents**

The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

- T1295P-AA • Vans • Qualification Program • 2015 • Suspension System Technicians • Competency Analysis

- T0173F-AA • Vans • Chassis and Driving Assistance Systems • Sprinter Model Series 906, Vito/Viano Model Series 639 • Run

- T0142F-AA • Trucks, Vans • Vehicle alignment • Go

- T1294E-AA • Vans • Qualification Program • 2015 • Suspension System Technician • Final Test • Go

As soon as all your qualifications have been verified, you will receive your certificate.

**Optional prerequisite**

Before signing up for the qualification program, you should have good knowledge of systematic troubleshooting procedures and of the workshop systems, including Star Diagnosis. Good knowledge of the on-board electrical system and vehicle networking is also required.

You can obtain or refresh this knowledge by attending the following training courses:

- T0004F • Passenger Cars, Trucks, Vans, smart • Diagnosis Strategy 1 • Go

- P0019F • WIS/ASRA 3 for Workshop Specialists • Go

- P0022F • VeDoc with Read Function • Go

- T0180F • Trucks, Vans • Star Diagnosis Level II • Run

- T0250F • Vans • On-Board Electrical Systems, System Networking, Instrumentation • Sprinter (Model Series 906), Vito/Viano (Model Series 639) • Run

**Mandatory prerequisite**

T1265E • Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Duration</strong></td>
<td>5.0 days (per 8 hours)</td>
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<tr>
<td>Chapter</td>
<td>Technical Training</td>
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</tr>
<tr>
<td>Department</td>
<td>Chassis and Active Safety</td>
</tr>
<tr>
<td>Title</td>
<td>T1299E • Vans • Qualification Program • 2015 • Suspension System Technician • Initial Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1299E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Driving Stability</td>
</tr>
</tbody>
</table>
| Objectives | > The participant's knowledge is determined for the competence area.  
> An individual training plan is created for the competence area.  
> The participant and supervisor are informed of the individual qualification path. |
| Contents | Theoretical test covering the following subjects:  
> Electronic level control  
> Brake systems  
> Driving assistance systems  
> Steering and axles  
> Wheel alignment |
| Mandatory prerequisite | T1265E • Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go  
This training/test has to be booked, before you are authorized to book the main training.  
You’ll find a detailed description about the training, using the training code. |
<p>| Training Depth | Go |
| Method | Theorie 100%, Practice0% |
| Note | The test is part of the qualification program for Mercedes-Benz Suspension System Technicians. |
| Duration | 0 hours |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Chassis and Active Safety</td>
</tr>
<tr>
<td>Title</td>
<td>T1294E • Vans • Qualification Program • 2015 • Suspension System Technician • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1294E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Driving Stability</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant’s knowledge is determined for the competence area.</td>
</tr>
<tr>
<td>Contents</td>
<td>Theoretical test covering the following subjects: &gt; Electronic level control &gt; Brake systems &gt; Driving assistance systems &gt; Steering and axles &gt; Wheel alignment</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 100%, Practice0%</td>
</tr>
<tr>
<td>Note</td>
<td>The test is part of the qualification program for Mercedes-Benz Suspension System Technicians.</td>
</tr>
<tr>
<td>Duration</td>
<td>0 hours</td>
</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
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<tr>
<td>---------</td>
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<tr>
<td><strong>Department</strong></td>
<td>Chassis and Active Safety</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T1255F • Vans • Suspension • Model Series 447 New Features and Modifications • Run</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T1255F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician Driving Stability</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the design and function of the new suspension and steering systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Perform the main diagnosis tasks on the driving assistance systems</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>&gt; Brake systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Driving assistance systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Electrical steering systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Steering and axles</td>
</tr>
<tr>
<td><strong>Mandatory prerequisite</strong></td>
<td>T1237E • Vans • Driving assistance systems • e-Training • Go</td>
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<tr>
<td></td>
<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Run</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>1 day (per 8 hours)</td>
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</tbody>
</table>
# Technical Training

## Chassis and Active Safety

### Title
T1237E • Vans • Driving assistance systems • e-Training • Go

### Course Number
T1237E-AA

### Target group
System Technician

### Objectives
The participant can:
- Describe the design and function of the individual systems
- Describe the networking of the individual systems
- Describe the requirements for activating and deactivating the driving assistance systems

### Contents
- ATTENTION ASSIST
- Traffic Sign Assist
- DISTRONIC PLUS
- COLLISION PREVENT ASSIST
- PRE-SAFE®
- Crosswind Assist
- Lane Keeping Assist
- Blind Spot Assist
- Auto on/off driving lights
- Reversing camera
- 360° camera system
- Active Park Assist

### Training Depth
Go

### Method
Theorie 100%, Practice0%

### Duration
0,8 hours
Technical Training

Chassis and Active Safety

Title
T0762F • Trucks • Electronic Brake System (EBS) • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run

Course Number
T0762F-AA

Target group
System Technician Driving Stability

Objectives
The participant can:
> Describe the design of the electronic air-processing unit
> Understand and explain the functions in the electronic air-processing unit
> Perform parameterization for ESP4all
> Check the pressure retention function of the electronic air-processing unit according to manufacturer specifications
> Describe the integration of the electronic air-processing unit in vehicle networking
> Perform potential work and diagnoses on the electronic air-processing unit with XENTRY Diagnosis
> Describe the system design of the electronic brake system for different vehicle versions
> Name the individual system components and explain their tasks
> Explain the special functions in the system design of the electronic brake system
> Perform target-oriented function tests on individual components

Contents
> Design and function:
  - Electronic air-processing unit
  - Electronic brake system
  - ESP4all
> Special functions of the electronic brake system, such as the hill holder
> Testing of system functions and individual system components
> Fault diagnoses

Training Depth
Run
Method
Theorie 45%, Practice55%

Note
As a prerequisite for this training course, the participant has successfully completed the training course "T0151F • Trucks • Air Brake Systems • Go" or has equivalent knowledge.

Participants can refresh their knowledge in preparation for the "e-Initial Test" by working through the CBTs "Air Brake Systems – Fundamentals" (order no. 1290 4348 02 ) and "Air Brake Systems – Reading Pneumatic Function Schematics" (1290 4316 02).

Duration
2,0 days (per 8 hours)
### Technical Training

<table>
<thead>
<tr>
<th>Department</th>
<th>Chassis and Active Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>T0152F • Trucks • Chassis/Suspension Systems • ASA (Additional Steering Axle) and CLCS (Chassis Level Control System) • Actros BR 963 • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0152F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Driving Stability</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can perform test, adjustment and repair work using current diagnosis systems and workshop information systems independently and efficiently.</td>
</tr>
</tbody>
</table>
| Contents            | > Design and function of the new additional steering axle (ASA)  
> Design and functions of the Chassis Level Control System, CLCS  
> Practical work on the chassis/suspension systems |
| Training Depth       | Run  | Method | Theorie 100% |
| Duration            | 1 day (per 8 hours)       |
# Technical Training

## Comfort/Convenience and Safety Systems

**Title**  
T1300Q • Passenger Cars • Qualification Program • 2015 • Comfort and Passive Safety • Run

**Course Number**  
T1300Q-AA

**Target group**  
System Technician Comfort and Safety

**Objectives**  
Participants qualify as telecommunications system technicians. Participants receive a certificate following completion of the qualification program.

**Contents**  
The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

- T1300P-AA • Passenger Cars • Qualification Program • 2015 • Comfort and Passive Safety • Competency Analysis
- T0274F-AA • Passenger Cars • Passive Restraint, Knee, Airbag and Safety Systems • Run
- T0447F-AA • Passenger Cars • Diagnosis of Comfort and Climate Control Systems • Fly
- T0819F-AA • Passenger Cars • Air Conditioning Systems and Auxiliary Heaters • Emphasis on the S-Class (W/V222), A-Class and B-Class (W176, W246) • Run
- T1124F-AA • Passenger Cars • Supplemental Restraint Systems • Drive Authorization Systems • Operation, Diagnosis and Repair • Run
- T1273E-AA • Passenger Cars • Telematics • Comfort • Diagnosing Telematics and Comfort Systems • e-Training • Run
- T1291E-AA • Passenger Cars • Qualification Program • 2015 • Comfort and Passive Safety System Technician • Final Test • Run

As soon as all your qualifications have been verified, you will receive your certificate.

**Mandatory prerequisite**  
T1315E • Passenger Cars • Qualification Program • 2015 • Cross-System Competence for System Technicians • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**  
Run

**Method**  
Theorie 100%

**Duration**  
8,5 days (per 8 hours)
## Technical Training

**Department**  
Comfort/Convenience and Safety Systems

**Title**  
T1291E • Passenger Cars • Qualification Program • 2015 • Comfort and Passive Safety System Technician • Final Test • Run

<table>
<thead>
<tr>
<th>Course Number</th>
<th>T1291E-AA</th>
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</thead>
<tbody>
<tr>
<td>Target group</td>
<td>System Technician Comfort and Safety</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant's knowledge is determined for the field of comfort and passive safety systems.</td>
</tr>
<tr>
<td>Contents</td>
<td>This is an online test designed to assess the theoretical knowledge in the field of comfort and passive safety.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td>Note</td>
<td>The test is part of the qualification program for Mercedes-Benz comfort and passive safety system technicians.</td>
</tr>
<tr>
<td>Duration</td>
<td>0 hours</td>
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</table>
## Technical Training

### Comfort/Convenience and Safety Systems

**Title**  
T1273E • Passenger Cars • Telematics • Comfort • Diagnosing Telematics and Comfort Systems • e-Training • Run

<table>
<thead>
<tr>
<th>Course Number</th>
<th>T1273E-AA</th>
</tr>
</thead>
</table>

**Target group**  
System Technician Comfort and Safety, System Technician Telecommunication

**Objectives**  
The participant:  
- Knows why the levels model presents a sound approach  
- Knows the four levels and can name them  
- Is familiar with the exclusion mechanism and can use this procedure in combination with the levels model  
- Is familiar with information sources and can relate them to the levels  
- Can understand the diagnostic approach using the four-level model for the case of reception problems on a domestic TV satellite system  
- Can create a virtual diagnosis for a central locking case using the levels model  
- Can create a virtual diagnosis for the navigation function of an Audio 20 system with Becker MAP pilot using the levels model

**Contents**  
- Four-level diagnosis model  
- Systematic troubleshooting  
  - Audio/video, navigation, telephony, rear seat entertainment system  
  - Climate control, active multicontour seats, window lifter, DAS, access authorization system  
- Information sources for troubleshooting:  
  - WIS, XENTRY TIPS, vehicle manual  
- Virtually guided diagnosis using the four-level model for comfort and telematics systems

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Run</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Duration</th>
<th>1,0 hours</th>
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</thead>
</table>
# Technical Training

## Department
Comfort/Convenience and Safety Systems

## Title
T0819F • Passenger Cars • Air Conditioning Systems and Auxiliary Heaters • Emphasis on the S-Class (W/V222), A-Class and B-Class (W176, W246) • Run

## Course Number
T0819F-AA

## Target group
System Technician Comfort and Safety

## Objectives
The participant can:
- Describe the design and function of the refrigerant circuit on current model series
- Explain the difference between water and air-controlled air conditioning
- Describe the design and function of temperature control on the model series W246, W176, W166, W205 and W222
- Perform proper diagnosis on the model series W246, W176, W166, W205 and W222
- Explain the design and function of the auxiliary heating system on the model series W246, W176, W166, W205 and W222
- Perform proper diagnosis on the auxiliary heating system
- Can describe the additional functions of the climate control in hybrid vehicles (pre-conditioning)

## Contents
> Cooling technology in retrospect: Describe the proper service process using the air conditioning service device
> Differences between water and air-controlled climate control
> Design and function of climate control
> Diagnosis work on the vehicle using XENTRY and the Workshop Information System (WIS)
> Design and function of the auxiliary heating system
> Diagnosis and testing on the auxiliary heating system
> Overview of the additional functions of climate control in hybrid vehicles

## Optional prerequisite
Participants can test and refresh their knowledge using the e-Training "T0092E • Passenger Cars, Trucks, Vans • Air Conditioning Systems • e-Training • Go".

## Training Depth
Run

## Method
Theorie 30%, Practice 70%

## Duration
2,0 days (per 8 hours)
# Chapter

## Technical Training

### Department

**Comfort/Convenience and Safety Systems**

### Title

T0074E • Passenger Cars • Diagnosis of Comfort and Climate Control Systems • e-Training • Run

### Course Number

T0074E-AA

### Target group

System Technician Comfort and Safety

### Objectives

The participant can:
- Describe the procedure for conducting systematic diagnosis in line with the diagnostic strategy
- Name the most important features of the comfort and climate control systems
- Name the installation locations of the most important system components
- Name the fundamentals of the electrical and bus systems for the comfort and climate control systems
- Learn and apply the basic principles in virtual practical situations

### Contents

- Diagnosis levels and strategy
- Example system and function fundamentals
- Virtual troubleshooting

### Training Depth

<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 100%</th>
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</thead>
<tbody>
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</tbody>
</table>

### Duration

2.3 hours
## Technical Training

### Department
Comfort/Convenience and Safety Systems

### Title
T0454F • Passenger Cars, Vans • New Drive Authorization System DAS 4 • Key Programming • Run

### Course Number
T0454F-AA

### Target group
System Technician Comfort and Safety

### Objectives
The participant can:
- > Independently program the DAS 4 vehicle key
- > Block and release the key tracks

### Contents
> Overall process "Drive Authorization DAS 4" in combination with Xentry
> Handling of theft-relevant parts in accordance with the currently valid guidelines from Daimler AG
> Operating the DAS 4 software for component programming

### Training Depth
Run Method Theorie 50%, Practice 50%

### Note
The participant must have sound knowledge and authorization for Xentry Flash.

### Duration
1 day (per 8 hours)
## Technical Training

### Department
Comfort/Convenience and Safety Systems

### Title
T0274F • Passenger Cars • Passive Restraint, Knee, Airbag and Safety Systems • Run

### Course Number
T0274F-AA

### Target group
System Technician Comfort and Safety

### Objectives
The participant can:
- Describe the design, function and repair of the current restraint systems
- Diagnose and test SRS components
- Perform diagnosis and repair work on the airbag, emergency tensioning retractor and PRE-SAFE® systems
- Independently perform preventive measures on safety-relevant components on an accident-damaged vehicle

### Contents
- Design, deployment and effect of all airbag systems
- Handling SRS components and PRE-SAFE® systems
- Emergency tensioning retractor and NECK-PRO head restraint
- Seat occupancy and automatic child seat recognition
- Passive safety components
- Legal framework (Explosives Act and the Explosives Act Ordinance)
- Responsibilities within the company
- Storage of pyrotechnical material
- Reporting procedure and offenses

### Training Depth
Run

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 50%, Practice50%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

### Note
Participants can test and refresh their knowledge using the CBT programs "Safety and Restraint Systems" Parts 1 and 2 (order No. 1290 4034 and 1290 4039).

### Duration
2,0 days (per 8 hours)
### Technical Training

#### Department
Comfort/Convenience and Safety Systems

#### Title
T1159F • Vans • Comfort and Climate Control Systems • V-Class (Model Series 447) • Run

#### Course Number
T1159F-AA

#### Target group
System Technician Comfort and Safety

#### Objectives
The participant can:

- State the components and installation locations of the drive authorization system and central locking
- Name the components of the restraint systems and their installation locations
- Describe the controls and adjustment elements for windows, doors, seats and sliding roofs
- Name the equipment variants in the vehicle air conditioning system
- Perform troubleshooting on the different systems and efficiently rectify faults

#### Contents
- Drive authorization and central locking
- ATA
- Interior equipment and instrument cluster
- Airbag SRS
- Heating and climate control
- Parking assist
- Retrofits

#### Optional prerequisite
The participant has basic knowledge of interior equipment, WIS and DAS.

#### Training Depth
Run

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 50%, Practice50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
<td></td>
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</table>
# Technical Training

## Department
**Comfort/Convenience and Safety Systems**

## Title
T1129E • Vans • Qualification Program • 2014, 2015 • Comfort and Passive Safety System Technician • Initial Test • Go

## Course Number
T1129E-AA

## Target group
System Technician Comfort and Safety

## Objectives
- The participant's knowledge is determined for the competence area.
- An individual training plan is created for the competence area.
- The participant and supervisor are informed of the individual qualification path.

## Contents
Theoretical test covering the following subjects:
- Comfort systems
  - Climate control
  - Drive Authorization and Locking Systems
  - Interior equipment
- Passive safety systems

## Mandatory prerequisite
T1265E • Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training.

You’ll find a detailed description about the training, using the training code.

## Training Depth
<table>
<thead>
<tr>
<th>Go</th>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
</table>

## Note
The test is part of the qualification program for Mercedes-Benz Comfort and Passive Safety System Technicians.

## Duration
0 hours
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Comfort/Convenience and Safety Systems</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T1130E • Vans • Qualification Program • 2014, 2015 • Comfort and Passive Safety System Technician • Final Test • Go</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T1130E-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician Comfort and Safety</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant’s knowledge is determined for the fields of competence.</td>
</tr>
</tbody>
</table>
| **Contents** | This is an online test designed to assess theoretical knowledge in the following fields:  
> Comfort systems  
  - Climate control  
  - Drive Authorization and Locking Systems  
  - Interior equipment  
> Passive safety systems |
<p>| <strong>Training Depth</strong> | Go | <strong>Method</strong> | Theorie 100%, Practice0% |
| <strong>Note</strong> | The test is part of the qualification program for Mercedes-Benz Comfort and Passive Safety System Technicians. |
| <strong>Duration</strong> | 0 hours |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Comfort/Convenience and Safety Systems</td>
</tr>
<tr>
<td>Title</td>
<td>T1052E • Trucks • Qualification Program • 2014, 2015 • Comfort and Safety System Technician • Initial Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1052E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Comfort and Safety</td>
</tr>
</tbody>
</table>
| Objectives | > The participant’s knowledge is determined for the competence areas.  
> An individual training plan is created for the competence area.  
> The participant and supervisor are informed of the individual qualification path. |
| Contents | Theoretical test in the areas:  
> Comfort systems  
  - Climate control  
  - Drive authorization and locking systems  
  - Interior equipment  
> Passive safety systems |
| Mandatory prerequisite | T1079E • Trucks • Qualification Program • 2014 • Cross-System Competence for System Technicians • Final test • Go  
This training/test has to be booked, before you are authorized to book the main training.  
You’ll find a detailed description about the training, using the training code. |
| Training Depth | Go  
Method | Theorie 100%, Practice0% |
<p>| Note | The test is part of the qualification program for Mercedes-Benz Comfort and Passive Safety System Technicians. |
| Duration | 0 hours |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Comfort/Convenience and Safety Systems</td>
</tr>
<tr>
<td>Title</td>
<td>T1053E • Trucks • Qualification Program • 2014 • Comfort and Safety System Technician • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1053E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Comfort and Safety</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant's knowledge is determined for the competence areas.</td>
</tr>
<tr>
<td>Contents</td>
<td>This is an online test designed to assess theoretical knowledge in the following fields:</td>
</tr>
<tr>
<td></td>
<td>&gt; Comfort systems</td>
</tr>
<tr>
<td></td>
<td>- Climate control</td>
</tr>
<tr>
<td></td>
<td>- Drive authorization and locking systems</td>
</tr>
<tr>
<td></td>
<td>- Interior equipment</td>
</tr>
<tr>
<td></td>
<td>&gt; Passive safety systems</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 100%, Practice0%</td>
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<tr>
<td>Note</td>
<td>The test is part of the qualification program for Mercedes-Benz Comfort and Passive Safety System Technicians.</td>
</tr>
<tr>
<td>Duration</td>
<td>0 hours</td>
</tr>
</tbody>
</table>
# Technical Training

## Department
Comfort/Convenience and Safety Systems

## Title
T1068F • Trucks • Climate Control Systems • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run

## Course Number
T1068F-AA

## Target group
System Technician Comfort and Safety

## Objectives
The participant can:
- Describe the design and function of all heating and air conditioning components as well as their integration in the on-board electrical system of the truck series
- Independently and professionally perform a diagnosis after malfunctions have occurred in the heating and climate control systems

## Contents
Theoretical knowledge and practical work on the Actros, Antos, Arocs and Atego Euro VI truck model series (96x)
- Design and function of the various heating and climate control systems
- Integration in the on-board electrical system of the truck series
- Use of literature (function descriptions and wiring diagrams)
- Practical examples for diagnosis and troubleshooting

## Optional prerequisite
The participant has worked through the e-Training "T0092E • Passenger Cars, Trucks, Vans • Air Conditioning Systems • e-Training • Go" or has good knowledge of the refrigeration circuit. The participant has completed the training course "T0255F • Passenger Cars, Trucks, Vans, smart • Certificate of Competence for Air Conditioning Systems according to EC Regulation 307/2008 • Go" and possesses a certificate of competence for working on the refrigeration circuit.

## Training Depth
Run Method Theorie 40%, Practice 60%

## Note
The participant is proficient in the use of Star Diagnosis, including HMS 990.

## Duration
2.0 days (per 8 hours)
## Technical Training

### Comfort/Convenience and Safety Systems

**Title**: T0243F • Trucks • Drive Authorization and Locking Systems • Actros, Axor • Run

**Course Number**: T0243F-AA

**Target group**: System Technician Comfort and Safety

**Objectives**

The participant can:

- Describe the design and function of current truck drive authorization and locking systems
- Generate proper diagnoses in case of malfunctions and independently perform repair work on truck locking systems (e.g. control unit replacement)

**Contents**

Theoretical knowledge and practical work on the established truck series Actros, Axor and Atego.

- Design and system function of:
  - Central locking systems
  - Comfort locking systems
  - Anti-theft alarm systems (ATA)
  - Drive authorization systems (immobilizer)
- New features/modifications in the current Actros model series 96x and Axor2
- Use of literature (function descriptions and wiring diagrams)
- Practical examples and exercises for diagnosis and troubleshooting

**Optional prerequisite**

The participant has completed training course "T0244F • Trucks • On-Board Electrical Systems, System Networking, Instrumentation • Actros, Axor, Atego • Run" or has equivalent knowledge. The participant is proficient in the use of Star Diagnosis, including HMS 990.

**Training Depth**

Run Method: Theorie 50%, Practice 50%

**Note**

Participants can test and refresh their knowledge using the CBT programs "Principles of Motor Vehicle Electronics" Parts 1-3 (order no. 1290 4757/ 58/ 59) and "Access and Drive Authorization Systems" (1290 4340).

**Duration**

2,0 days (per 8 hours)
## Technical Training

### Department
Comfort/Convenience and Safety Systems

### Title
T1055F • Trucks • Drive Authorization and Locking Systems • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run

### Course Number
T1055F-AA

### Target group
System Technician Comfort and Safety

### Objectives
The participant can:
- Describe the design and function of the drive authorization and locking systems for the truck series (96x)
- Generate proper diagnoses in case of malfunctions and independently perform repair work on truck locking systems (e.g. control unit replacement)

### Contents
Theoretical knowledge and practical work on the Actros, Antos, Arocs and Atego Euro VI truck model series (96x)
- Design and system function of:
  - Central locking systems
  - Comfort locking systems
  - Anti-theft alarm systems (ATA)
  - Drive authorization systems (immobilizer)
- Use of literature (function descriptions and wiring diagrams)
- Practical examples and exercises for diagnosis and troubleshooting

### Optional prerequisite
The participant has completed the training course "T1028F • Trucks • On-Board Electrical Systems, System Networking, Instrumentation • Actros, Antos, Arocs, Atego Euro VI (Model Series 963, 964, 967) • Run" or has equivalent knowledge. The participant is proficient in the use of Star Diagnosis, including HMS 990.

### Training Depth
Run Method Theorie 50%, Practice 50%

### Note
Participants can test and refresh their knowledge using the CBT programs "Principles of Motor Vehicle Electronics" Parts 1-3 (order no. 1290 4757/58/59) and "Access and Drive Authorization Systems" (1290 4340).

### Duration
2,0 days (per 8 hours)
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<tr>
<th>Chapter</th>
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<tbody>
<tr>
<td>Department</td>
<td>Comfort/Convenience and Safety Systems</td>
</tr>
<tr>
<td>Title</td>
<td>T1357E • Trucks • Qualification Program • 2015 • Comfort and Safety System Technician • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1357E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Comfort and Safety</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant’s knowledge is determined for the competence areas.</td>
</tr>
</tbody>
</table>
| Contents | This is an online test designed to assess theoretical knowledge in the following fields:  
> Climate control systems  
> Drive authorization and locking systems |
| Mandatory prerequisite | T1055F • Trucks • Drive Authorization and Locking Systems • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run  
T1068F • Trucks • Climate Control Systems • Actros, Antos, Arocs and Atego Euro VI (Model Series 963, 964, 967) • Run  
This training/test has to be booked, before you are authorized to book the main training.  
You’ll find a detailed description about the training, using the training code. |
| Training Depth | Go |
| Method | Theorie 100%, Practice0% |
| Note | The test is part of the qualification program for Mercedes-Benz Comfort and Passive Safety System Technicians. |
| Duration | 0 hours |
Technical Training

Department
Telecommunications

Title
T1301Q • Passenger Cars • Qualification Program • 2015 • Telecommunications • Run

Course Number
T1301Q-AA

Target group
System Technician Telecommunication

Objectives
Participants qualify as telecommunications system technicians. Participants receive a certificate following completion of the qualification program.

Contents
The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1301P-AA • Passenger Cars • Qualification Program • 2015 • Telecommunications • Competency Analysis

> T0455F-AA • Passenger Cars • Telematics • Diagnosis of the NTG 4.5 and Current Telematics Systems • Fly

> T0822F-AA • Passenger Cars • Telematics • Telecommunications Systems • Run

> T0833E-AA • Passenger Cars • Telecommunications Systems • e-Training • Go

> T1269F-AA • Passenger Cars • Telematics • Operation and Function of Current Telecommunication Systems • Run

> T1273E-AA • Passenger Cars • Telematics • Comfort • Diagnosing Telematics and Comfort Systems • e-Training • Run

> T1292E-AA • Passenger Cars • Telematics • Qualification Program • 2015 • Telecommunication Systems Technician • Final Test • Run

As soon as all your qualifications have been verified, you will receive your certificate.

Mandatory prerequisite
T1315E • Passenger Cars • Qualification Program • 2015 • Cross-System Competence for System Technicians • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Training Depth
Run  Method  Theorie 100%

Duration
6,0 days (per 8 hours)
## Technical Training

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<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Telecommunications</td>
</tr>
<tr>
<td>Title</td>
<td>T1120F • Passenger Cars • Telematics • C-Class Model Series 205 and S-Class Coupé Model Series 217 • Innovations • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1120F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Telecommunication</td>
</tr>
</tbody>
</table>
| Objectives | The participant can:
> Explain the design, function and features of the NTG 5.0 Star 1, as well as the new telecommunications accessories
> Systematically evaluate telematics complaints and find suitable repair solutions
> Perform structured troubleshooting using DAS and XENTRY |
| Contents | > Networking and interplay of telematics generation NTG 5.0 Star 1 in the C-Class W205 and S-Class C217
> Programming on COMAND online
> Troubleshooting and diagnosis based on current complaints
> Use of diagnostic tools including Hermann Measurement Technology
> Bluetooth® technology
> Basic and comfort telephony including antennas
> New telecommunications accessories |
<p>| Training Depth | Run | Method | Theorie 30%, Practice 70% |
| Duration | 2,0 days (per 8 hours) |</p>
<table>
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<th>Chapter</th>
<th>Technical Training</th>
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<tr>
<td>Department</td>
<td>Telecommunications</td>
</tr>
<tr>
<td>Title</td>
<td>T1292E • Passenger Cars • Telematics • Qualification Program • 2015 • Telecommunication Systems Technician • Final Test • Run</td>
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<tr>
<td>Course Number</td>
<td>T1292E-AA</td>
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<tr>
<td>Target group</td>
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<tr>
<td>Objectives</td>
<td>The participant's knowledge is determined for the field of telecommunication systems.</td>
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<td>Contents</td>
<td>This is an online test designed to assess the theoretical knowledge in the field of telecommunication systems.</td>
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<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 100%</td>
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<tr>
<td>Note</td>
<td>The test is part of the qualification program for Mercedes-Benz telecommunications system technicians.</td>
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<tr>
<td>Duration</td>
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# Chapter

## Technical Training

### Department
Telecommunications

### Title
T0097E • Passenger Cars • Diagnosis of Telematics Systems • Fundamentals • e-Training • Run

### Course Number
T0097E-AA

### Target group
System Technician Telecommunication

### Objectives
The participant can explain the design, the function and the features of the new NTG 4.5 and of the current telematics and audio systems.

### Contents
- Mercedes-Benz telematics platforms and differences - NTG 3.5, 4.0, 2.5 and the new NTG 4.5
- Function and design - NTG 3.5, 4.0, 2.5, 4.5
- Telematics system with rear entertainment system

### Training Depth
<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 100%</th>
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</thead>
<tbody>
<tr>
<td>Run</td>
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</tbody>
</table>

### Note
This e-Training has been supplemented with information on the NTG 4.5 in the CL218 and R172.

### Duration
2,0 hours
## Technical Training

### Department
Telecommunications

### Title
T1121F • Passenger Cars • Comfort and Climate Control Systems • C-Class Model Series 205 and S-Class Coupé Model Series 217 • Innovations • Run

### Course Number
T1121F-AA

### Target group
System Technician Telecommunication

### Objectives
The participant can:
> Explain the design, functions, and features of the comfort and climate control systems
> Diagnose the complex comfort, drive authorization, and display systems on the current vehicle model series, and find suitable repair solutions
> Perform structured troubleshooting using XENTRY
> Share experiences during practical exercises and expand his/her knowledge
> Internalize the systematic approach of the diagnosis strategy by completing practical exercises

### Contents
> Network architecture with FlexRay and Star 2 Architecture
> Hybrid system
> Energy management, lithium-ion battery
> Comfort functions such as the interior illumination concept, roof systems, air-balance package, HANDS-FREE ACCESS
> LED headlamp systems
> Diagnosis hardware and advanced diagnosis functions, e.g. New Star Diagnosis Hardware XENTRY Kit/Realignment of Star Diagnosis
> Control units and FlexRay bus system
> Advanced handling of Star Diagnosis, XENTRY, and Hermann Measurement Technology
> Diagnosis of customer complaints, generating proper remedial actions, remedying faults

### Training Depth
Run Method
Theorie 30%, Practice 70%

### Duration
2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
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<tbody>
<tr>
<td>Department</td>
<td>Telecommunications</td>
</tr>
<tr>
<td>Title</td>
<td>T1273E • Passenger Cars • Telematics • Comfort • Diagnosing Telematics and Comfort Systems • e-Training • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1273E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Comfort and Safety, System Technician Telecommunication</td>
</tr>
</tbody>
</table>
| Objectives | The participant:  
> Knows why the levels model presents a sound approach  
> Knows the four levels and can name them  
> Is familiar with the exclusion mechanism and can use this procedure in combination with the levels model  
> Is familiar with information sources and can relate them to the levels  
> Can understand the diagnostic approach using the four-level model for the case of reception problems on a domestic TV satellite system  
> Can create a virtual diagnosis for a central locking case using the levels model  
> Can create a virtual diagnosis for the navigation function of an Audio 20 system with Becker MAP pilot using the levels model |
| Contents |  
> Four-level diagnosis model  
> Systematic troubleshooting  
> - Audio/video, navigation, telephony, rear seat entertainment system  
> - Climate control, active multicontour seats, window lifter, DAS, access authorization system  
> Information sources for troubleshooting:  
> - WIS, XENTRY TIPS, vehicle manual  
> Virtually guided diagnosis using the four-level model for comfort and telematics systems |
<p>| Training Depth | Run |
| Method | Theorie 100% |
| Duration | 1,0 hours |</p>
<table>
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<tr>
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<th>Technical Training</th>
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<tr>
<td>Department</td>
<td>Telecommunications</td>
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<tr>
<td>Title</td>
<td>T0833E • Passenger Cars • Telecommunications Systems • e-Training • Go</td>
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<tr>
<td>Course Number</td>
<td>T0833E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Telecommunication</td>
</tr>
</tbody>
</table>
| Objectives | The participant:  
  > Can distinguish between the telematics generations NTG 1, NTG 2, NTG 2.5, NTG 3 and NTG 4  
  > Is familiar with the basic structure of MOST systems  
  > Is familiar with the basic structure of telematic generations  
  > Is familiar with the subfunctions and differences between telematics generations |
| Contents | > Function and design of the Mercedes-Benz telecommunication systems NTG 1, NTG 2, NTG 2.5, NTG 3, NTG 4  
  > Structure of MOST systems  
  > Subfunctions and differences between telematics generations |
| Training Depth | Go |
| Method | Theorie 100%, Practice0% |
| Duration | 4,0 hours |
# Technical Training

## Department
Telecommunications

## Title
T0455F • Passenger Cars • Telematics • Diagnosis of the NTG 4.5 and Current Telematics Systems • Fly

## Course Number
T0455F-AA

## Target group
System Technician Telecommunication

## Objectives
The participant can:
- Systematically evaluate complex telematics complaints and find suitable repair solutions
- Perform structured troubleshooting using DAS and XENTRY
- Internalize the systematic approach of the diagnosis strategy by completing practical exercises

## Contents
- Networking and cross-linking of telematics generation NTG 4.5 with emphasis on new model series and on NTG 4.5
- Control and display concept (BAK) in new model series
- Troubleshooting and diagnosis based on current complaints
- Use of the latest diagnostic tools, antenna meter and Hermann Measurement Technology
- Bluetooth technology
- Basic and comfort telephony including antennas

## Mandatory prerequisite
T0097E • Passenger Cars • Diagnosis of Telematics Systems • Fundamentals • e-Training • Run
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth
Fly

## Method
Theorie 30%, Practice 70%

## Duration
2,0 days (per 8 hours)
# Technical Training

## Department
**Telecommunications**

## Title
T1035E • Vans, Trucks • Qualification Program • 2014, 2015 • Telecommunications System Technician • Initial Test • Go

<table>
<thead>
<tr>
<th>Course Number</th>
<th>T1035E-AA</th>
</tr>
</thead>
</table>

## Target group
System Technician Telecommunication

## Objectives
- The participant's knowledge is determined for the competence area.
- An individual training plan is created for the competence area.
- The participant and supervisor are informed of the individual qualification path.

## Contents
Theoretical test covering the following subjects:
- Telecommunications systems
  - Radio
  - Telephones
  - Navigation
  - FleetBoard

## Mandatory prerequisite
T1265E • Vans • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go

T1267E • Trucks • Qualification Program • 2015 • Cross-System Competence for System Technician • Final Test • Go

This training/test has to be booked, before you are authorized to book the main training. You'll find a detailed description about the training, using the training code.

## Training Depth
<table>
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<tr>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
</thead>
</table>

## Note
The test is part of the qualification program for Mercedes-Benz Telecommunications System Technicians.

## Duration
0 hours
# Technical Training

<table>
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<th>Technical Training</th>
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<tbody>
<tr>
<td>Department</td>
<td>Telecommunications</td>
</tr>
<tr>
<td>Title</td>
<td>T1018E • Vans, Trucks • Qualification Program • 2014, 2015 • Telecommunications System Technician • Final Test • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1018E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>System Technician Telecommunication</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant's knowledge is determined for the fields of competence.</td>
</tr>
<tr>
<td>Contents</td>
<td>This is an online test designed to assess theoretical knowledge in the following fields: &gt; Telecommunications Systems - Radio - Telephone - Navigation - FleetBoard</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Go</td>
</tr>
<tr>
<td>Method</td>
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<tr>
<td>Note</td>
<td>The test is part of the qualification program for Mercedes-Benz Telecommunications System Technicians.</td>
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<tr>
<td>Duration</td>
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<tr>
<td><strong>Department</strong></td>
<td>Telecommunications</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T1163F • Vans • Telematics • V-Class, Vito Model Series 447 • New Features and Modifications • Run</td>
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<tr>
<td><strong>Course Number</strong></td>
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</tr>
<tr>
<td><strong>Target group</strong></td>
<td>System Technician Telecommunication</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the design and function of the new systems</td>
</tr>
<tr>
<td></td>
<td>&gt; Understand and implement simple diagnosis steps</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>&gt; New hardware in the new V-Class and the new Vito (model series 447)</td>
</tr>
<tr>
<td></td>
<td>- New telematics generations for radio, telephone and navigation</td>
</tr>
<tr>
<td></td>
<td>- Design, functions and basic diagnosis for the respective systems</td>
</tr>
<tr>
<td><strong>Optional prerequisite</strong></td>
<td>The participant has completed the advanced training course &quot;T1017F • Trucks, Vans • Telematics • Run&quot; or has equivalent knowledge.</td>
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<td><strong>Training Depth</strong></td>
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<td><strong>Method</strong></td>
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<tr>
<td><strong>Duration</strong></td>
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</table>
# Chapter

## Technical Training

### Department

**Telecommunications**

### Title

T0091E • Trucks, Vans • Fundamentals of Telematics • e-Training • Go

### Course Number

T0091E-AA

### Target group

System Technician Telecommunication

### Objectives

The participant can

- Describe the fundamentals for signal transmission, radio systems, navigation, and mobile communication
- Describe the interrelation of the various functions in navigation and mobile communication
- Understand the complex interrelations of networked and non-networked systems and can describe them

### Contents

- Introduction to telematics
- Fundamentals of signal transmission:
  - Transmission paths
  - Frequency
  - Transmitting and receiving with antennas
- GSM network, design, and description
- SMS in telematics
- UMTS and LTE successor technology
- Vehicle navigation components
- Design of the global positioning system (GPS)
- Dynamic destination-oriented vehicle navigation
- Digital audio/video systems such as DAB and DMB

### Training Depth

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
</tr>
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<tbody>
<tr>
<td>Go</td>
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</tbody>
</table>

### Note

The participant requires access to the intranet/Internet, as this seminar consists of online content.

### Duration

2,0 hours
# Technical Training

## Department
Telecommunications

## Title
T1017F • Trucks, Vans • Telematics • Run

## Course Number
T1017F-AA

## Target group
System Technician Telecommunication

### Objectives
The participant can:
- Describe the scope of telematics systems in trucks and vans
- Understand the physical fundamentals used in the telematics systems
- Diagnose and understand basic malfunctions in telematics systems
- Perform measurement and diagnosis work on the current factory-fitted systems

### Contents
Practical work on the new truck series Actros, Antos, Arocs and Atego Euro VI and the established van series.
- Basic knowledge of high-frequency technology and antenna systems
- GPS and GSM networks and UMTS
- Design and function of vehicle networks
- Function of GPS, audio and video components
- Inductive charging, inductive antenna
- Simple measurement and diagnostic work on the vehicle using the Workshop Information System and diagnostic systems

### Optional prerequisite
Participation in the training course "T1028F • Trucks • System Networking and Instrumentation • Actros, Antos, Arocs, Atego Euro VI (Model Series 96x, 963, 964, 967) • Run" or "T0795F • Vans • System Networking and Instrumentation • Sprinter Facelift, Vito/Viano, Citan (Model Series 906, 639, 415) • Run" is recommended.

### Mandatory prerequisite
T0091E • Trucks, Vans • Fundamentals of Telematics • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth

<table>
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<tr>
<th>Training Depth</th>
<th>Run</th>
<th>Method</th>
</tr>
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<tr>
<td></td>
<td></td>
<td>Theorie 0%, Practice 100%</td>
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</tbody>
</table>

### Note
The duration of the training course may differ in each country.

### Duration
2,0 days (per 8 hours)
## Technical Training

### Department
**Telecommunications**

### Title
T0105E • Trucks, Vans • FleetBoard • e-Training • Go

### Course Number
T0105E-AA

### Target group
System Technician Telecommunication

### Objectives
The participant has an overview of the telematics-supported fleet management system FleetBoard

### Contents
- System description and services
- Benefits of the system for workshops and customers
- Components, installation locations and networking
- Services, servers and data flow
- Information about contact persons

### Training Depth
Go  
Method  Theorie 100%, Practice0%

### Duration
1,0 hours
## Mercedes-Benz Global Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Telecommunications</td>
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<tr>
<td>Title</td>
<td>T1023F • Trucks, Vans • Telematics • FleetBoard • Fly</td>
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<tr>
<td>Target group</td>
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</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Handle the following tasks for the model-refined, telematics-supported fleet management system FleetBoard:</td>
</tr>
<tr>
<td></td>
<td>- Properly retrofit the system</td>
</tr>
<tr>
<td></td>
<td>- Diagnose the system</td>
</tr>
<tr>
<td></td>
<td>- Start up the system</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; The product &quot;FleetBoard&quot;</td>
</tr>
<tr>
<td></td>
<td>- System description, scope of services and workshop benefits offered by the system</td>
</tr>
<tr>
<td></td>
<td>&gt; The technical system in commercial vehicles with telematics platform 5 (TP5)</td>
</tr>
<tr>
<td></td>
<td>- Components, installation locations, networking and wiring diagrams</td>
</tr>
<tr>
<td></td>
<td>- Integration of communications functions in the CGW, base module and the PSM</td>
</tr>
<tr>
<td></td>
<td>&gt; Services, servers, data flow</td>
</tr>
<tr>
<td></td>
<td>- Interaction with the driver cockpit, server, freight forwarder and the service operations</td>
</tr>
<tr>
<td></td>
<td>&gt; Retrofitting FleetBoard on vehicles with and without preinstallation</td>
</tr>
<tr>
<td></td>
<td>&gt; FleetBoard diagnosis/troubleshooting</td>
</tr>
<tr>
<td></td>
<td>&gt; Reading out and interpreting data using FleetBoard</td>
</tr>
<tr>
<td></td>
<td>&gt; Information on contact persons and a preview of future developments</td>
</tr>
<tr>
<td>Optional prerequisite</td>
<td>The participant has completed an advanced (&quot;Run&quot;) training course in telematics or has equivalent knowledge.</td>
</tr>
<tr>
<td>Mandatory prerequisite</td>
<td>T0105E • Trucks, Vans • FleetBoard • e-Training • Go</td>
</tr>
<tr>
<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
<td></td>
</tr>
<tr>
<td>Training Depth</td>
<td>Fly</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 50%, Practice 50%</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day (per 8 hours)</td>
</tr>
</tbody>
</table>
## Technical Training

### Department
Telecommunications

### Title
T1024F • Trucks • Telematics • Fly

### Course Number
T1024F-AA

### Target group
System Technician Telecommunication

### Objectives
The participant can:
- Describe the telematics systems in the current truck model series
- Operate telephones, navigation, FleetBoard and the CB radio
- Perform targeted diagnoses on the telematics systems with and without Star Diagnosis
- Set and program the components

### Contents
Practical work on the new truck series Arocs and Atego Euro VI
- Operation, design, function and diagnosis of telematics components
- Radio – DAB/DAB+
- Navigation systems
- Telephone and cell phone installation
- Multimedia applications
- FleetBoard system and FleetBoard workshop applications
- CB two-way radio systems
- Practical application of on-board and off-board diagnosis in telematics systems

### Optional prerequisite
The participant has completed the advanced training course "T1017F • Trucks, Vans • Telematics • Run" or has good knowledge of telematics. He/she is proficient in the use of Star Diagnosis, including the HMS 990, and has good knowledge in the fields of electrical/electronic systems and on-board electrical systems.

### Training Depth
Fly Method Theorie 60%, Practice 40%

### Duration
2,0 days (per 8 hours)
Technical Training

Department: Bodywork

Title: T1308Q • Passenger Cars • Qualification Program • 2015 • Body Specialist • Run

Course Number: T1308Q-AA

Target group: Bodywork Specialist

Objectives: Participant qualify as body specialists. Participants receive a certificate following completion of the qualification program.

Contents:
The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1308P-AA • Passenger Cars • Qualification Program • 2015 • Body Specialist • Competency Analysis

> T0449F-AA • Passenger Cars • Repair and Adjustment Operations for Soft Top Systems • SL, SLK and E-Class (R231, R172 and A207) • Run
> T0450E-AA • Passenger Cars • Fundamental Knowledge of Soft Top Systems • SL, SLK and E-Class (R231/R172/A207) • e-Training • Go
> T0451F-AA • Passenger Cars • Diagnosis of Soft Top Systems • Emphasis on the R231, SLK and E-Class Cabriolet • Fly
> T0458E-AA • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go
> T0849F-AA • Passenger Cars • Accident Repair • S-Class (W/V 222) • Fly
> T0851F-AA • Passenger Cars • Interior and Exterior Equipment • S-Class Model Series 222 • Fly
> T0911F-AA • Passenger Cars • Damage diagnosis • Accident repair • Run

> T1305E-AA • Passenger Cars • Qualification Program • 2015 • Body Specialist • Final Test • Run

As soon as all your qualifications have been verified, you will receive your certificate.

Training Depth

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run</td>
<td></td>
</tr>
</tbody>
</table>

Duration: 7.5 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Bodywork</td>
</tr>
<tr>
<td>Title</td>
<td>T1305E • Passenger Cars • Qualification Program • 2015 • Body Specialist • Final Test • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1305E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Bodywork Specialist</td>
</tr>
</tbody>
</table>
| Objectives | > The participant's knowledge is determined for the competence areas.  
> An individual qualification plan is created for the competence area.  
> The participant and supervisor are informed of the individual qualification path |
| Contents | Final test on the topic of vehicle bodies |
| Training Depth | Run | Method | Theorie 100% |
| | | | |
| Note | The test is part of the qualification program for Mercedes-Benz body specialists. |
| Duration | 0 hours |
Chapter Technical Training

Department Bodywork

Title T1307Q • Passenger Cars • Qualification Program • 2015 • Body Technician • Run

Course Number T1307Q-AA

Target group Bodywork Technician

Objectives Participant qualify as body technicians. Participants receive a certificate following completion of the qualification program.

Contents

The qualification program consists of the following individual training course and begins with the initial test. Following the initial test you will receive a recommendation on which training course(s) you should book:

> T1307P-AA • Passenger Cars • Qualification Program • 2015 • Body Technician • Competency Analysis

> T0458E-AA • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go
> T1000F-AA • Passenger Cars • Joining Technology • Run
> T1104F-AA • Passenger Cars • Equipment • Interior and Exterior Equipment in the A-, B-, GLA- and CLA-Class (model series 176, 246, 167, 117) • Run
> T1127F-AA • Passenger Cars • Accident Repair • A-, B-, GLA- and CLA-Class (Model Series 176, 246, 167, 117) • Run
> T1276F-AA • Passenger Cars • Accident Repair • C-Class (Model Series 205) • Run
> T1277F-AA • Passenger Cars • Equipment • C-Class (Model Series 205) • Run
> T####F-AA • Passenger Cars • Equipment • E-Class Model Series 212 • Run
> T1303F-AA • Passenger Cars • Accident Repair • E-Class Model Series 212 • Run

> T1304E-AA • Passenger Cars • Qualification Program • 2015 • Body Technician • Final Test • Run

As soon as all your qualifications have been verified, you will receive your certificate.

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Run</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>7,5 days (per 8 hours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
<td></td>
<td></td>
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<tr>
<td>---------</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Department</td>
<td>Bodywork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>T1304E • Passenger Cars • Qualification Program • 2015 • Body Technician • Final Test • Run</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Number</td>
<td>T1304E-AA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Target group</td>
<td>Bodywork Technician</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Objectives | > The participant's knowledge is determined for the competence areas.  
> An individual qualification plan is created for the competence area.  
> The participant and supervisor are informed of the individual qualification path |
| Contents | Final test on the topic of vehicle bodies |
| Training Depth | Run | Method | Theorie 100%, Practice 0% |
| Note | The test is part of the qualification program for Mercedes-Benz body technicians. |
| Duration | 0 hours |
Chapter 11/2014

Technical Training

Department Bodywork

Title T1127F • Passenger Cars • Accident Repair • A-, B-, GLA- and CLA-Class (Model Series 176, 246, 167, 117) • Run

Course Number T1127F-AA

Target group Bodywork Technician

Objectives The participant:
> Can name the design of the body structure used for model series 176, 246, 167 and 117
> Can name the latest processing methods for "ultra high-strength" steels
> Can name the most important body repairs

Contents
> Use of special tools on the A- and B-Class (model series 176, 246, 167, 117)
> Practically-oriented exercises on various sectional repairs
> Special considerations for coatings, e.g. galvanized panels
> Requirements due to ultra high-strength steels (e.g. Usibor)

Mandatory prerequisite T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Training Depth Run
Method Theorie 25%, Practice 75%

Note The participant must have basic experience in bodywork repair on previous model series in accordance with MB guidelines. In addition, basic knowledge regarding MIG soldering, MAG welding, resistance welding and how to set up the straightening bench is required.

Duration 1 day (per 8 hours)
### Technical Training

#### Department
**Bodywork**

#### Title
T1122F • Passenger Cars • Accident Repair • C-Class Model Series 204 and E-Class Model Series 212 • Run

#### Course Number
T1122F-AA

#### Target group
Bodywork Specialist

#### Objectives
- Can name the body structure designs of the model series 212 and 204
- Can name the latest processing methods for the “ultra high-strength” steels
- Can name the most important body repairs

#### Contents
- Use of special tools on the C-Class model series 204 and E-Class model series 212
- Practically-oriented exercises on various sectional repairs
- Special considerations for coatings, e.g. galvanized panels
- New requirements resulting from the use of ultra high-strength steels (e.g. Usibor)

#### Mandatory prerequisite
T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training. 
You’ll find a detailed description about the training, using the training code.

#### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 25%, Practice 75%</th>
</tr>
</thead>
</table>

#### Note
The participant must have basic experience in bodywork repairs on previous model series in accordance with MB guidelines.
In addition, basic knowledge regarding MIG soldering, MAG welding, resistance welding and how to set up the straightening bench is required.

#### Duration
2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Bodywork</td>
</tr>
<tr>
<td>Title</td>
<td>T1276F • Passenger Cars • Accident Repair • C-Class (Model Series 205) • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1276F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Bodywork Technician</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant can:</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the structure of the aluminum hybrid body on the C-Class model series 205</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe the repair size concept</td>
</tr>
<tr>
<td></td>
<td>&gt; State the workshop equipment requirements resulting from the hybrid aluminum construction</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe special considerations for damage diagnosis</td>
</tr>
<tr>
<td></td>
<td>&gt; Describe common repairs and special considerations</td>
</tr>
<tr>
<td></td>
<td>&gt; Identify the required safety measures for working on the SRS</td>
</tr>
<tr>
<td></td>
<td>&gt; Explain the scope of special tools for specific model series</td>
</tr>
<tr>
<td></td>
<td>&gt; Name the approved straightening systems</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Body concept for the C-Class model series 205</td>
</tr>
<tr>
<td></td>
<td>&gt; Repair size concept for aluminum structures</td>
</tr>
<tr>
<td></td>
<td>&gt; Workshop equipment requirements resulting from the hybrid aluminum construction</td>
</tr>
<tr>
<td></td>
<td>&gt; Damage diagnosis procedure</td>
</tr>
<tr>
<td></td>
<td>&gt; Practical exercises for common repairs</td>
</tr>
<tr>
<td></td>
<td>&gt; Use of special tools</td>
</tr>
<tr>
<td></td>
<td>&gt; Body straightening systems</td>
</tr>
<tr>
<td>Mandatory prerequisite</td>
<td>T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go</td>
</tr>
<tr>
<td></td>
<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run</td>
</tr>
<tr>
<td>Method</td>
<td>Theorie 20%, Practice 80%</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day (per 8 hours)</td>
</tr>
</tbody>
</table>
## Technical Training

### Title

T1303F • Passenger Cars • Accident Repair • E-Class Model Series 212 • Run

### Course Number

T1303F-AA

### Target group

Bodywork Technician

### Objectives

The participant can:
- Name the design of the body structure used for model series 212
- Describe common repairs and special considerations
- Name special considerations required for processing ultra-high-strength steels during repairs
- Explain the scope of special tools for specific model series
- Name the approved straightening systems

### Contents

- Body concept for the E-Class model series 212
- Practical exercises for common repairs
- Repair concept requirements occasioned by ultra-high-strength steels
- Use of special tools
- Body straightening systems

### Mandatory prerequisite

T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth

<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 100%</th>
</tr>
</thead>
</table>

### Duration

1 day (per 8 hours)
# Technical Training

## Department

**Bodywork**

## Title

T1097F • Passenger Cars • Accident Repair • M and GL-Class Model Series 166 • Run

## Course Number

T1097F-AA

## Target group

Bodywork Specialist

## Objectives

The participant:

- Can name the design of the body structure used for model series 166
- Can name the latest processing methods for "ultra high-strength" steels
- Can name the most important body repairs

## Contents

- Use of special tools on the M and GL Class (model series 166)
- Practically-oriented exercises on various sectional repairs
- Special considerations of coatings, e.g. galvanized panels
- New requirements due to ultra high-strength steels (e.g. Usibor)

## Mandatory prerequisite

T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth

<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 25%, Practice75%</th>
</tr>
</thead>
</table>

## Duration

1 day (per 8 hours)
## Technical Training

### Department
**Bodywork**

### Title
T0849F • Passenger Cars • Accident Repair • S-Class (W/V 222) • Fly

### Course Number
T0849F-AA

### Target group
Bodywork Expert

### Objectives
The participant can:
- Describe the design of the aluminum body structure and the repair concept for the S-Class (W/V222)
- Describe the latest methods for processing aluminum materials
- Perform basic aluminum body repairs such as riveting, bolting, and bonding
- Identify the required safety measures for working on the SRS

### Contents
- S-Class body and repair concept (W/V 222)
- Use of special tools
- Practically-oriented exercises on various sectional repairs
- Special considerations and new demands for aluminum materials

### Mandatory prerequisite
T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 20%, Practice 80%</th>
</tr>
</thead>
</table>

### Duration
1 day (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td><strong>Bodywork</strong></td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0450E • Passenger Cars • Fundamental Knowledge of Soft Top Systems • SL, SLK and E-Class (R231/R172/A207) • e-Training • Go</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0450E-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>Bodywork Specialist</td>
</tr>
</tbody>
</table>
| **Objectives** | The participant can  
> Describe the design, function and repair of soft top systems  
> Identify the new features/modifications in the familiar systems |
| **Contents** | Fundamental knowledge on the design and function of the soft top systems on the new SL-Class, SLK-Class and E-Class Cabriolet |
| **Training Depth** | Go  
Method: Theorie 100%, Practice0% |
| **Duration** | 1.0 hours |
## Technical Training

### Department
**Bodywork**

### Title
T0449F • Passenger Cars • Repair and Adjustment Operations for Soft Top Systems • SL, SLK and E-Class (R231, R172 and A207) • Run

### Course Number
T0449F-AA

### Target group
Bodywork Specialist

### Objectives
- Name the design, function and repair of the new soft top system on the R231 and on other current soft top systems
- Identify the new features and modifications in the familiar systems
- Check the new and current Vario roof systems and adjust as required
- Position and adjust the trunk lid and tubular frame
- Check and adjust the side windows
- Perform a hydraulic pressure test on the systems and carry out repairs
- Perform immediate measures and emergency actuation following a breakdown
- Work on current field complaints as part of an exchange of experience session

### Contents
- Design and function of the new R231 soft top system and other current soft top systems
- Practical work on the new R231 soft top system and on other current roof systems
- Targeted adjustment operations (e.g. tubular frame) on specified roof systems
- Consistently reliable window adjustment
- Current complaints and remedies
- Working with diagnostic tools and special tools
- Breakdown assistance procedures/emergency actuation

### Mandatory prerequisite
T0450E • Passenger Cars • Fundamental Knowledge of Soft Top Systems • SL, SLK and E-Class (R231/R172/A207) • e-Training • Go

This training/test has to be booked, before you are authorized to book the main training. You´ll find a detailed description about the training, using the training code.

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 30%, Practice 70%</th>
</tr>
</thead>
</table>

### Duration
2,0 days (per 8 hours)
## Technical Training

### Department
**Bodywork**

### Title
**T0451F • Passenger Cars • Diagnosis of Soft Top Systems • Emphasis on the R231, SLK and E-Class Cabriolet • Fly**

### Course Number
**T0451F-AA**

### Target group
**Bodywork Specialist**

### Objectives
- Describe the design, function and characteristics of the new soft top system on the R231 and of the soft top systems currently found on the R172 and A207
- Carry out a hydraulic pressure test on the vehicle
- Diagnose and remedy electrohydraulic faults and mechanical problems
- Perform emergency actuation in a professional manner
- Work on current field complaints as part of an exchange of experience session (topical focus hour)

### Contents
- Targeted fault diagnosis on the roof systems with emphasis on the R231 as well as R172 and A207
- Processing of current customer complaints using TIPS and WIS
- Targeted use of diagnostic tools and special tools
- Performing breakdown assistance procedures/emergency actuation
- Diagnosis, fault repair and current remedial actions for complaints

### Optional prerequisite
**T0450E • Passenger Cars • Fundamental Knowledge of Soft Top Systems • SL, SLK and E-Class (R231/R172/A207) • e-Training • Go**

### Training Depth
**Fly**

### Method
**Theorie 20%, Practice 80%**

### Duration
2,0 days (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Bodywork</td>
</tr>
<tr>
<td>Title</td>
<td>T0376F • Passenger Cars • Accident Repair and Equipment • SLK and CLS-Class • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0376F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Bodywork Specialist</td>
</tr>
</tbody>
</table>
| Objectives | The participant:  
> Can name the design of the body structure used for the various model series  
> Can name the latest processing methods for "ultra high-strength" steels  
> Can name the most important body repairs  
> Is familiar with the required safety measures for welding jobs and work on the SRS system  
> Can name the main equipment features and special considerations  
> Can perform fundamental removal and installation jobs for the interior |
| Contents | > Use of special tools on various model series  
> Practically-oriented exercises on various sectional repairs  
> Special considerations of coatings, e.g. galvanized panels  
> New requirements due to ultra high-strength steels (e.g. Usibor)  
> Practically-oriented exercises on various removal and installation operations on the interior and exterior |
| Training Depth | Run | Method | Theorie 25%, Practice 75% |
| Note | The participant must have basic experience in bodywork repairs on previous model series in accordance with Mercedes-Benz guidelines.  
In addition, basic knowledge regarding MIG soldering, MAG welding, resistance welding and how to set up the straightening bench is required. |
<p>| Duration | 2,0 days (per 8 hours) |</p>
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Bodywork</td>
</tr>
<tr>
<td>Title</td>
<td>T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0458E-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Bodywork Specialist</td>
</tr>
</tbody>
</table>
| Objectives | The participant  
> Can name the design of the body structure used for model series  
> Can name the most important body repairs  
> Is familiar with the required safety measures for welding work |
| Contents | Fundamental knowledge about body accident repair |
| Training Depth | Go |
| Method | Theorie 100%, Practice 0% |
| Duration | 1,0 hours |
## Technical Training

### Department

**Bodywork**

### Title

T0365F • Passenger Cars • Aluminum Welding 1 • Run

### Course Number

T0365F-AA

### Target group

Bodywork Expert

### Objectives

The participant can:

- Assess the hazards associated with MIG welding and take precautionary personal safety measures
- Name the differences between MIG/MAG welding and the advantages of the pulsed arc technique
- Set welding equipment to suit the base material, the type of seam and the welding position
- Join aluminum panels using the different types of seams and in different welding positions
- Prepare the required learning outcome checks as per DIN EN ISO 9606-2 and assess his/her manual skill level in aluminum welding

### Contents

- Work safety and accident prevention
- MIG/MAG welding, pulsed arc
- Adjustment of welding parameters/effects on the weld
- Pulsed arc
- MIG welding of fillet welds and square butt joint welds in the different welding positions
- Close training with learning outcome checks to assess the participants’ manual skills and to identify what still needs to be done to prepare for the training course “T0463F • Passenger Cars • Aluminum Welding 2 • Fly”

The training course ends with a learning outcome check to assess participants’ practical skills.

### Training Depth

<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 15%, Practice85%</th>
</tr>
</thead>
</table>

### Note

The operation must have a dedicated aluminum workstation that meets Mercedes-Benz specifications!

Participants must bring their own complete protective clothing (welding mask, safety shoes, jacket or overalls), as it will be worn during the practical segment of the course.

To successfully conclude this training course, the participant must have successfully completed vocational training as a body specialist and have at least 3 years of professional experience in accident repairs on Mercedes-Benz passenger cars.

IMPORTANT! The course contents are mandatory requirements for participation in “T0463F • Passenger Cars • Aluminum Welding 2 • Fly”.

The price includes all test fees, along with the training course and test material.

### Duration

5,0 days (per 8 hours)
# Technical Training

## Department
**Bodywork**

## Title
T0463F • Passenger Cars • Aluminum Welding 2 • Fly

## Course Number
T0463F-AA

## Target group
Bodywork Expert

## Objectives
- Assess the hazards of MIG welding and take measures to protect his/her health
- Name the differences between MIG/MAG welding and the advantages of the pulsed arc technique
- Set welding equipment to suit the base material, type of seam and the welding position
- Work on skills with regard to the weld positions and seam types used in repairs
- Detect possible weld seam faults and respond appropriately
- Verify his/her MIG aluminum welding skills during tests

## Contents
- Work safety and accident prevention
- MIG/MAG welding, pulsed arc
- Adjustment of welding parameters/effects on the weld
- Preparation for the test in accordance with DIN ISO EN 9606-2
- Preparation for the test on die-cast and chilled-cast components in accordance with Mercedes-Benz specifications
- Test in accordance with the above-listed standards
- Final qualification in accordance with ISO 9606-2 and Mercedes-Benz standard (GSP/TPE) for aluminum welding on body structures

## Mandatory prerequisite
T0365F • Passenger Cars • Aluminum Welding 1 • Run
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

## Training Depth
**Fly**

<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 10%, Practice 90%</th>
</tr>
</thead>
</table>

## Note
The participant must bring his or her own complete protective clothing (welding mask, safety shoes, jacket or overalls), as it will be worn during the practical segment of the course.

The participant must bring the "QEV 111 AEYEGL TS Weld Specimen Material " pack to the training course.

The final test is valid for two years if the prescribed work sample 1 (T0513F), the work sample 2 (T0518F) and the work sample 3 (T0530F) are created with the required quality every six months.

After two years, further training is required in order to extend the certificate by another two years.

The training price includes all test fees.

## Duration
5,0 days (per 8 hours)
<table>
<thead>
<tr>
<th><strong>Chapter</strong></th>
<th><strong>Technical Training</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td><strong>Bodywork</strong></td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0854F • Passenger Cars • Aluminum Welding • Work Sample 4 • Fly</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0854F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>Bodywork Expert</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>Successful 6-month proof of qualification for aluminum welding on Mercedes-Benz vehicles.</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>Creation of aluminum welding samples as per ISO 9606-2 and Mercedes-Benz-specific standards.</td>
</tr>
<tr>
<td><strong>Mandatory prerequisite</strong></td>
<td>T0846F • Passenger Cars • Aluminum Welding • Further Training 1 • Fly</td>
</tr>
<tr>
<td></td>
<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Fly Method Theorie 10%, Practice90%</td>
</tr>
<tr>
<td><strong>Note</strong></td>
<td>The participant must bring</td>
</tr>
<tr>
<td></td>
<td>- his/her welding test certificate from training course T0846F</td>
</tr>
<tr>
<td></td>
<td>- his/her complete protective clothing (welding mask, safety shoes, jacket or overalls), as it needs to be worn during the practical part of the course</td>
</tr>
<tr>
<td></td>
<td>- a materials package &quot;QEV 111 AEYEGL TS Weld Specimen Material&quot; for creating a work sample</td>
</tr>
<tr>
<td></td>
<td>On successful completion of the tests in the &quot;Aluminum Welding Further Training&quot; course, the participant will receive a certificate. This certificate is valid for 2 years, as long as the employee successfully participates in the prescribed training courses &quot;Aluminum Welding Work Sample 4, 5 and 6 • Fly&quot; every 6 months.</td>
</tr>
<tr>
<td></td>
<td>IMPORTANT! These work samples must be created personally in the welding institute in the presence of qualified examiners/trainers. No other type of creation is permitted. The training price includes all test fees.</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
## Technical Training

<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Department</strong></td>
<td>Bodywork</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>T0906F • Passenger Cars • Aluminum Welding • Work Sample 5 • Fly</td>
</tr>
<tr>
<td><strong>Course Number</strong></td>
<td>T0906F-AA</td>
</tr>
<tr>
<td><strong>Target group</strong></td>
<td>Bodywork Expert</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>Successful proof of qualification for aluminum welding on Mercedes-Benz vehicles every 6 months.</td>
</tr>
<tr>
<td><strong>Contents</strong></td>
<td>Creation of aluminum welding samples as per ISO 9606-2 and Mercedes-Benz-specific standards.</td>
</tr>
<tr>
<td><strong>Mandatory prerequisite</strong></td>
<td>T0854F • Passenger Cars • Aluminum Welding • Work Sample 4 • Fly</td>
</tr>
<tr>
<td></td>
<td>This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.</td>
</tr>
<tr>
<td><strong>Training Depth</strong></td>
<td>Fly</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>Theorie 10%, Practice90%</td>
</tr>
</tbody>
</table>
| **Note**               | The participant must  
- bring his/her "Welder Test Certificate" from the training course T0846F  
- must bring his/her own complete protective clothing (welding mask, safety shoes, jacket or overalls), as it will be worn during the practical part of the course  
- bring the "QEV 111 AEYEGL TS Weld Specimen Material" to the work trial. |
|                        | Employees who successfully complete the tests in the training course "Aluminum Welding Further Training" will receive a certificate. This certificate is valid for two years, as long as the employee successfully participates in the prescribed training courses "Aluminum Welding Work Sample 4, 5 and 6 • Fly" every six months. |
|                        | IMPORTANT! These work samples must be personally created in the welding institute in the presence of qualified examiners/trainers. No other type of creation is permitted. The training price includes all test fees. |
| **Duration**           | 2,0 days (per 8 hours)                                                                                                                                                                             |
# Technical Training

**Department**  
Bodywork

**Title**  
T0909F • Passenger Cars • Aluminum Welding • Work Sample 6 • Fly

**Course Number**  
T0909F-AA

**Target group**  
Bodywork Expert

**Objectives**  
Successful 6-month proof of qualification for aluminum welding on Mercedes-Benz vehicles.

**Contents**  
Creation of aluminum welding samples as per ISO 9606-2 and Mercedes-Benz-specific standards.

**Mandatory prerequisite**  
T0906F • Passenger Cars • Aluminum Welding • Work Sample 5 • Fly  
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

**Training Depth**  
<table>
<thead>
<tr>
<th>Fly</th>
<th>Method</th>
<th>Theorie 10%, Practice 90%</th>
</tr>
</thead>
</table>

**Note**  
The participant must  
- bring his or her "Welder Test Certificate" from the training course T0846F  
- must bring his or her own complete protective clothing (welding mask, safety shoes, jacket or overalls), as it will be worn during the practical part of the course  
- bring the "QEV 111 AEYEGL TS Weld Specimen Material" to the work trial.

Employees who successfully complete the tests in the training course "Aluminum Welding Further Training" will receive a certificate. This certificate is valid for two years, as long as the employee successfully participates in the prescribed training courses "Aluminum Welding Work Sample 4, 5 and 6 • Fly" every six months.

IMPORTANT! These work samples must be personally created in the welding institute in the presence of qualified examiners/trainers. No other type of creation is permitted. The training price includes all test fees.

**Duration**  
2,0 days (per 8 hours)
**Technical Training**

**Department**
Bodywork

**Title**
T0846F • Passenger Cars • Aluminum Welding • Further Training 1 • Fly

**Course Number**
T0846F-AA

**Target group**
Bodywork Specialist

### Objectives
The participant can:
- Assess the hazards of MIG welding and take measures to protect his/her health
- Name the differences between MIG/MAG welding and the advantages of the pulsed arc technique
- Set welding equipment to suit the base material, type of seam and the welding position
- Work on skills with regard to the weld positions and seam types used in repairs
- Detect possible weld seam faults and respond appropriately
- Verify his/her MIG aluminum welding skills during tests

### Contents
- Work safety and accident prevention
- MIG/MAG welding, pulsed arc
- Adjustment of welding parameters/effects on the weld
- Repetition of the test in accordance with DIN ISO EN 9606-2
- Preparation for the test on die-cast and chilled-cast components in accordance with Mercedes-Benz specifications
- Test in accordance with the above-listed standards
- Repetition of the final qualification in accordance with ISO 9606-2 and Mercedes-Benz standard (GSP/TPE) for aluminum welding on body structures

**Mandatory prerequisite**
T0530F • Passenger Cars • Aluminum Welding • Work Sample 3 • Fly

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth

<table>
<thead>
<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie</th>
<th>Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fly</td>
<td></td>
<td>10%</td>
<td>90%</td>
</tr>
</tbody>
</table>

### Note
- The participant must
  - bring his/her "Welder Test Certificate" from the training course T0463F
  - must bring his/her own complete protective clothing (welding mask, safety shoes, jacket or overalls), as it will be worn during the practical segment of the course
  - bring the "QEV 111 AEYEGGL TS Weld Specimen Material" to the work trial.

Employees who successfully complete the tests in the training course "Aluminum Welding Further Training" will receive a certificate. This certificate is valid for 2 years, as long as the employee successfully participates in the prescribed training courses "Aluminum Welding Work Sample 4, 5 and 6 • Fly" every 6 months.

The training price includes all test fees.

### Duration
3,0 days (per 8 hours)
Chapter
Technical Training

Department
Bodywork

Title
T1345F • Passenger Cars • Aluminum Welding • Further Training 2 • Fly

Course Number
T1345F-AA

Target group
Bodywork Specialist, Bodywork Technician

Objectives
The participant can:
> Assess the hazards of MIG welding and take measures to protect his/her health
> Name the differences between MIG/MAG welding and the advantages of the pulsed arc technique
> Set welding equipment to suit the base material, type of seam and the welding position
> Work on skills with regard to the weld positions and seam types used in repairs
> Detect possible weld seam faults and respond appropriately
> Verify his/her MIG aluminum welding skills during tests

Contents
> Work safety and accident prevention
> MIG/MAG welding, pulsed arc
> Adjustment of welding parameters/effects on the weld
> Repetition of the test in accordance with DIN ISO EN 9606-2
> Preparation for the test on die-cast and chilled-cast components in accordance with Mercedes-Benz specifications
> Test in accordance with the above-listed standards
> Repetition of the final qualification in accordance with ISO 9606-2 and Mercedes-Benz standard (GSP/TPE) for aluminum welding on body structures

Mandatory prerequisite
T0909F • Passenger Cars • Aluminum Welding • Work Sample 6 • Fly
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

Training Depth
<table>
<thead>
<tr>
<th>Method</th>
<th>Theorie 10%, Practice 90%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fly</td>
<td></td>
</tr>
</tbody>
</table>

Note
The participant must
- bring his/her "Welder Test Certificate" from the training course T0846F
- must bring his/her own complete protective clothing (welding mask, safety shoes, jacket or overalls) to be worn during the practical part of the course
- bring the "QEV 111 AYEGL TS Weld Specimen Material" to the work trial

Employees who successfully complete the tests in the training course "Aluminum Welding Further Training" will receive a certificate. This certificate is valid for 2 years, as long as the employee successfully participates in the prescribed training courses "Aluminum Welding Work Sample 7, 8 and 9 • Fly" every six months.

The training price includes all test fees.

Duration
3,0 days (per 8 hours)
## Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Bodywork</td>
</tr>
<tr>
<td>Title</td>
<td>T1128F • Passenger Cars • Equipment • Interior and Exterior • C-Class Model Series 204 and E-Class Model Series 212 • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1128F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Bodywork Specialist</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant &gt; Can name the main equipment features and special considerations for the C and E-Class &gt; Can perform the most important removal/installation operations on the interior and exterior</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Use of special tools on the C-Class model series 204 and E-Class model series 212 &gt; Practically-oriented exercises on various removal/installation operations on the interior and exterior</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Run Method Theorie 25%, Practice 75%</td>
</tr>
<tr>
<td>Duration</td>
<td>2,0 days (per 8 hours)</td>
</tr>
</tbody>
</table>
## Technical Training

### Department
Bodywork

### Title
T1277F • Passenger Cars • Equipment • C-Class (Model Series 205) • Run

### Course Number
T1277F-AA

### Target group
Bodywork Technician

### Objectives
The participant can:
- Name the main equipment features and special aspects of the model series 205 and 217
- Name the new restraint system features
- Perform the most important removal and installation work on the interior and exterior
- Perform possible calibration and adjustment operations

### Contents
- Introduction to the main equipment features and special aspects of the model series 205 and 217
- New restraint system features
- Practically-oriented exercises on various removal and installation operations in the interior and exterior
- Performing possible calibration and adjustment operations

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 20%, Practice 80%</th>
</tr>
</thead>
</table>

### Duration
1 day (per 8 hours)
### Technical Training

#### Department
Bodywork

#### Title
T1309F • Passenger Cars • Equipment • E-Class Model Series 212 • Run

#### Course Number
T1309F-AA

#### Target group
Bodywork Technician

#### Objectives
The participant:
- Can state the equipment features and special considerations for the model series 212
- Can perform the most important removal and installation work on the interior and exterior
- Is familiar with and can perform the calibration and adjustment operations required after repairs
- Can state the facelift scopes of model series 212 for MY 2013

#### Contents
- Practically-oriented exercises on various removal and installation operations in the interior and exterior
- Body-related calibration and adjustment operations
- Facelift scopes for MY 2013

#### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 20%, Practice80%</th>
</tr>
</thead>
</table>

#### Duration
1 day (per 8 hours)
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Bodywork</td>
</tr>
<tr>
<td>Title</td>
<td>T0851F • Passenger Cars • Interior and Exterior Equipment • S-Class Model Series 222 • Fly</td>
</tr>
<tr>
<td>Course Number</td>
<td>T0851F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Bodywork Specialist</td>
</tr>
<tr>
<td>Objectives</td>
<td>The participant:  &gt; Can describe the design on the aluminum body structure of the S-Class (W/V 222)  &gt; Can name the main equipment features and special considerations  &gt; Can perform the most important removal and installation work on the interior and exterior.  &gt; Is familiar with the work procedures and safety measures for roof systems  &gt; Is familiar with body-specific adjustment operations</td>
</tr>
<tr>
<td>Contents</td>
<td>&gt; Use of special tools on the S-Class (W/V 222) &gt; Practically-oriented exercises on various removal and installation operations in the interior and exterior &gt; Body-related calibration and adjustment operations &gt; Roof systems – information and safety precautions for removal and installation</td>
</tr>
<tr>
<td>Training Depth</td>
<td>Fly</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day (per 8 hours)</td>
</tr>
<tr>
<td>Chapter</td>
<td>Technical Training</td>
</tr>
<tr>
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<td>-------------------</td>
</tr>
<tr>
<td>Department</td>
<td>Bodywork</td>
</tr>
<tr>
<td>Title</td>
<td>T1105F • Passenger Cars • Equipment • Interior and Exterior Equipment in the M and GL-Class Model Series 166 • Run</td>
</tr>
<tr>
<td>Course Number</td>
<td>T1105F-AA</td>
</tr>
<tr>
<td>Target group</td>
<td>Bodywork Specialist</td>
</tr>
</tbody>
</table>
| Objectives | The participant:  
> Can name the main equipment features and special considerations  
> Can perform the most important removal and installation work on the interior and exterior. |
| Contents | > Use of special tools on the M and GL-Class model series 166  
> Practically-oriented exercises on various removal and installation operations in the interior and exterior |
| Training Depth | Run | Method | Theorie 25%, Practice 75% |
| Duration | 1 day (per 8 hours) |
## Technical Training

**Department**  
**Bodywork**

**Title**  
T0274F • Passenger Cars • Passive Restraint, Knee, Airbag and Safety Systems • Run

**Course Number**  
T0274F-AA

**Target group**  
System Technician Comfort and Safety

**Objectives**  
The participant can:

- Describe the design, function and repair of the current restraint systems
- Diagnose and test SRS components
- Perform diagnosis and repair work on the airbag, emergency tensioning retractor and PRE-SAFE® systems
- Independently perform preventive measures on safety-relevant components on an accident-damaged vehicle

**Contents**  
- Design, deployment and effect of all airbag systems
- Handling SRS components and PRE-SAFE® systems
- Emergency tensioning retractor and NECK-PRO head restraint
- Seat occupancy and automatic child seat recognition
- Passive safety components
- Legal framework (Explosives Act and the Explosives Act Ordinance)
- Responsibilities within the company
- Storage of pyrotechnical material
- Reporting procedure and offenses

**Training Depth**  
Run Method Theorie 50%, Practice 50%

**Note**  
Participants can test and refresh their knowledge using the CBT programs "Safety and Restraint Systems" Parts 1 and 2 (order No. 1290 4034 and 1290 4039).

**Duration**  
2,0 days (per 8 hours)
## Technical Training

### Department
Bodywork

### Title
T0911F • Passenger Cars • Damage diagnosis • Accident repair • Run

### Course Number
T0911F-AA

### Target group
Bodywork Specialist

### Objectives
The participant can:
- Correctly analyze and select the appropriate repair process
- Search for information in a targeted manner using the available systems in the Internet, Mercedes-Benz publications, and Mercedes-Benz repair guidelines
- Name the processes and methods for the entire reception and damage registration process

### Contents
- Detailed accident damage diagnosis
- Detailed repair planning based on the workshop order
- Implementation and documentation of repair works including quality assurance
- Knowledge on the manner in which active/passive safety systems function – relevance for accident repair
- Security-relevant accident repair
- Possible diagnoses of noises, leaks, body shell complaints

### Mandatory prerequisite
T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 25%, Practice 75%</th>
</tr>
</thead>
</table>

### Duration
1 day (per 8 hours)
## Technical Training

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Technical Training</th>
</tr>
</thead>
</table>

### Department
- **Bodywork**

### Title
- T1000F • Passenger Cars • Joining Technology • Run

### Course Number
- T1000F-AA

### Target group
- Bodywork Technician

### Objectives
The participant can
- > Describe the advantages and disadvantages of MIG welding and soldering as well as aluminium welding
- > Describe the determined areas of use for MIG soldering and aluminium welding on the vehicle
- > Name the filler materials approved for MIG soldering and aluminium welding
- > Name the special joint connections and professionally apply the bonding and riveting joint technologies and create mixed joints
- > Name the characteristics of aluminium materials, their properties and name possible repairs to the R231

### Contents
- > Joining methods currently used in production
- > Repair methods currently used in Mercedes-Benz workshops as related to the joining methods
- > Creating connections for testing purposes
- > Processing of aluminum materials and their repair in practical examples
- > Assessment of various joint connections that underwent destructive testing, especially adhesive bonding and riveting
- > Results of adhesive and riveted joints

### Mandatory prerequisite
- T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go
This training/test has to be booked, before you are authorized to book the main training.
You’ll find a detailed description about the training, using the training code.

### Training Depth
- **Run** Method
  - Theorie 30%, Practice 70%

### Duration
- 1 day (per 8 hours)
## Technical Training

### Department
**Bodywork**

### Title
T1034F • Passenger Cars • Product Expertise for Service Advisors • Damage Diagnosis and Accident Repair • Run

### Course Number
T1034F-AA

### Target group
Service Advisor

### Objectives
The participant can:
- Correctly analyze and select the appropriate repair process
- Search for information in a targeted manner using the available systems in the Internet, Mercedes-Benz publications, and Mercedes-Benz repair guidelines
- Name the processes and methods for the entire reception and damage registration process

### Contents
- Reception, accident damage diagnosis, determination of the repair level
- Fundamentals of workshop orders, damage calculation and insurance coordination processes
- Preparation and coordination of repair processing with body specialist
- Invoicing, vehicle handover to the customer
- Active/passive safety systems and relevance to accident repair
- Information about high-voltage for accident diagnosis
- Warranty processing (noises, leaks, body shell complaints)

### Mandatory prerequisite
T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
**Run**

### Method
Theorie 25%, Practice 75%

### Duration
1 day (per 8 hours)
### Technical Training

#### Department
**Bodywork**

#### Title
T0382F • smart • Accident Assessment Technology • Run

#### Course Number
T0382F-AA

#### Target group
Service Advisor

#### Objectives
The participant can:
- Assess accident damage
- Use smart® standards and guidelines for body repairs
- Determine the scope of work on vehicles damaged in an accident according to smart® guidelines
- Evaluate the results of work contracted out to specialized shops
- Name the sectional repairs performed on body components

#### Contents
- Accident damage assessment on models C/A450 and C/A 451
- smart® standards and guidelines for body repairs
- Determining the scope of repairs
- Checking repairs
- Determining body section repairs

#### Optional prerequisite
"T0386F • smart • Technology smart Model Series • Go" or completion of technical automotive training in an authorized smart service operation.

#### Mandatory prerequisite
T0500F • smart • smart fortwo Introduction • Go
This training/test has to be booked, before you are authorized to book the main training.
You’ll find a detailed description about the training, using the training code.

#### Training Depth
<table>
<thead>
<tr>
<th>Run</th>
<th>Method</th>
<th>Theorie 15%, Practice85%</th>
</tr>
</thead>
</table>

#### Duration
2,0 days (per 8 hours)
# Technical Training

**Department:** Bodywork  
**Title:** T1274F • Vans • Accident Repair and Equipment • V-Class and Vito Model Series 447 • Run  
**Course Number:** T1274F-AA  
**Target group:** Bodywork Specialist  
**Objectives:** The participant can:  
- Perform an accident diagnosis  
- Describe accident repair of the vehicle model used in the training according to the Mercedes-Benz guidelines.  
**Contents:**  
- Mercedes-Benz guidelines for repairing the vehicle model  
- Accident diagnosis  
- New features/modifications in accident repair  
- Active and passive safety  
- Protective equipment  
- Corrosion prevention measures  
**Training Depth:**  
- Run: Method Theorie 40%, Practice 60%  
**Duration:** 2,0 days (per 8 hours)
# Technical Training

## Department
Paint

## Title
T1098F • Passenger Cars • Quality Post-Repair Refinishing • Mercedes-Benz-Specific Topics • Run

## Course Number
T1098F-AA

## Target group
Paintwork Specialist

## Objectives
The participant:
- Can name the approved repair systems for warranty cases
- Can use the available systems to gather specific information on the Internet, in Mercedes-Benz publications and repair guidelines
- Can describe vehicle-specific work procedures, is familiar with tricks and angles, and can use the protective equipment
- Can state specific Mercedes-Benz processing specifications and techniques, work procedures and covering work for products

## Contents
- Warranty repair systems
- Online systems, Mercedes-Benz publications and repair guidelines
- Work procedure, occupational safety, masking methods
- Mercedes-Benz paintwork structure
- Base materials, substrates, and clear coat types
- Approved repair systems for warranty cases
- Current paint processing specifications and techniques
- Vehicle-specific work procedures
- Mercedes-Benz-specific covering work

## Training Depth
Run

<table>
<thead>
<tr>
<th>Theorie 25%</th>
<th>Practice 75%</th>
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</table>

## Note
The participant must bring his/her personal user ID and password for the Mercedes-Benz After-Sales portal (WIS, TIPS, EPC) to the training course.

## Duration
1 day (per 8 hours)
## Technical Training

### Department
- **Paint**

### Title
- **T1034F • Passenger Cars • Product Expertise for Service Advisors • Damage Diagnosis and Accident Repair • Run**

### Course Number
- **T1034F-AA**

### Target group
- **Service Advisor**

### Objectives
- The participant can:
  - Correctly analyze and select the appropriate repair process
  - Search for information in a targeted manner using the available systems in the Internet, Mercedes-Benz publications, and Mercedes-Benz repair guidelines
  - Name the processes and methods for the entire reception and damage registration process

### Contents
- Reception, accident damage diagnosis, determination of the repair level
- Fundamentals of workshop orders, damage calculation and insurance coordination processes
- Preparation and coordination of repair processing with body specialist
- Invoicing, vehicle handover to the customer
- Active/passive safety systems and relevance to accident repair
- Information about high-voltage for accident diagnosis
- Warranty processing (noises, leaks, body shell complaints)

### Mandatory prerequisite
- **T0458E • Passenger Cars • Fundamentals of Body Accident Repair • e-Training • Go**

This training/test has to be booked, before you are authorized to book the main training. You’ll find a detailed description about the training, using the training code.

### Training Depth
- **Run**

### Method
- **Theorie 25%, Practice 75%**

### Duration
- **1 day (per 8 hours)**
### Technical Training

#### Department
FUSO Canter

#### Title
T1245E • FUSO • Qualification Program • 2015 • Fuso Technicians • Initial Test • Go

<table>
<thead>
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<th>Course Number</th>
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<table>
<thead>
<tr>
<th>Target group</th>
<th>FUSO-Technician</th>
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</thead>
</table>

| Objectives | The participant's knowledge is determined for the competence areas.  
> An individual qualification plan is created for the competence area.  
> The participant and supervisor are informed of the individual qualification path. |
|------------|---------------------------------------------------------------|

| Contents | Theoretical test covering the following subjects:  
> Engine 4P10  
> Duonic transmissions  
> Electrical components and electrical networking in the Canter  
> Diagnosis strategy  
> Vehicle basics |
|----------|---------------------------------------------------------------|

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<tr>
<th>Training Depth</th>
<th>Method</th>
<th>Theorie 100%, Practice0%</th>
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<tbody>
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<tr>
<th>Note</th>
<th>The test is part of the qualification program for Fuso Technicians.</th>
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<tr>
<th>Duration</th>
<th>0 hours</th>
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