



DEUTZ Corporation
3883 Steve Reynolds Blvd.
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Field Training (Introduction and Minor Repair)

A one-or two-day Service Training School is held at a Distributor, Service Dealer, Fleet or OEM location. The instructions are tailored to the user's needs.

All of the Service Training Schools cover 1 (one) engine family in theory and practice. In the theoretical session system functions, components with their function and design features, assembly, adjustments and test procedures will be explained. System and component failure symptoms will be explained in their appropriate theoretical session. The engine disassembly and assembly requirements will be specified by the party requesting the training school.

The Training Program is laid out as follows:

Basics and Specific Engine Related Subjects

- Name plates, differences and content (Deutz, MSHA, EPA, Rating Change)
- Declaration of power (Power Ratings, SAE Horse power, Metric Horse Power)
- Engine Identification (ISO)
- Combustion Requirements
- Air Induction System (Air Cleaner, Restriction Warning Devices)
- Combustion Process (Naturally Aspirated, Turbo-Charged, Charge Air, Exhaust System)
- Basic Fuel Injection System (Tank, Lines, Lift Pumps, Filters, Injection Pumps)
- Pump Function (Plunger & Barrel, Fuel Metering, Delivery, Delivery Valve)
- Fuel Injector (Function Test and Repair)
- Basic Engine Oil System (Function, Filters, Viscosity, Oil consumption)
- Cooling System (Function, Repair and Maintenance)
- Special Tools
- Product Support Information
- Warranty
- Parts



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Engine Disassembly

- Introduction of engine
- Indicating and Identification Engine Components and their Locations
- Removal and Installation of Engine Components (using Workshop manual)
- Bolt Tightening Method
- Valve Adjustments
- Service / Maintenance Schedule (using appropriate manuals)
- Trouble Shooting
- Question and Answer Session

Trouble Shooting

After the engine has performed a satisfactory test run, problems will be installed in the engine. The participants, working as a team, are analyzing, identifying and solving problems until the engine's performance is as expected. The problems that are installed in the engine, are simulated problems, which can occur as real problems in a working engine application. At the end of the training session the participant will be able to perform Engine Maintenance and minor Repair Procedures related to the particular engine being introduced.