The Engine Electronic Service Training School covers the EMR / EMRII / EMRIII electronic systems used on various DEUTZ engines in theory and practice. In the theoretical session all control, governing and monitoring systems will be introduced. In the practical session the use of the Note Book (PC) connected to Electronic Engine Governing (EMR) systems will be exercised.

The Training Program is laid out as follows:

**1 Day Theory**
- Day 1 – Introduction / Basics

**1 Day Theory / Practice**
- Day 2 – Construction and Function of Components

**1 Day Practice**
- Day 3 – Diagnostic and Practice

**1 Day Practice**
- Day 4 – Practice

**Day 1 – Introduction / Basics**
- Function of the EMR / EMRII / EMRIII
- The main differences of the electronic governors (analog / digital)
- Construction and function of electronic modules
- Electronic Control Units (ECU), Sensors, Governor, Fuel Injection Pumps
- Understanding ECU’s i.e. EMR, EMS, MVS, EDC 7, EDC16
- Combination of different Systems (EMR-EMS)
- Electronic data
- Wiring harness
- Installation procedures and recommendations
- Diagnostic tools

**Day 2 – Construction and Function of Components**
- Diagnostic tool requirement. (PC, SERDIA, INTERFACE)
- Diagnostic software SERDIA
- Interface, Communication converter
- Connection of PC and Interface for diagnosis
- Diagnostic menus
- Diagnostic
- ECU Selection, Measured Values, Parameters, Error Memories, Function Test
Day 3 – Diagnostic and Practice
- Reading and selecting measured values
- Setting parameters and calibrations
- Function test
- Reading Error Memory
- Analyzing flashing failure codes
- Creating safety copy of parameter values from ECU to PC
- Entering new parameter values from PC to ECU
- Correction of Fuel Injection Pump Classification

Day 4 – Practice
- Connecting to EMRII engine simulator
- Setting of parameters
- Correcting electronic performance problems
- Connecting to EMRIII engine simulator
- Installation of software
- Saving software
- Changing parameter values
- Correcting electronic performance problems

The above layout may vary during the presentation.