

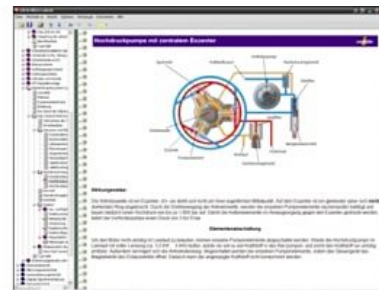
Item No.: SO4204-6X

Course - Automotive 13: Common rail diesel injection system

Includes:

Training panel with:

- Mechanical model of crankshaft and cylinder
- Variable rpm
- Variable load
- Variable temperature
- Minimum of four variable injector modes
- Regeneration mode
- RPM counter
- Measurement options on injector
- Measurement options at fuel quantity control valve
- Measurement options at rail pressure sensor
- Measurement options at rail pressure control valve
- CD-ROM with LabSoft browser and course software



Course contents:

- Requirements of diesel injection systems
- Design and operation of the common-rail system
- Fault localisation in a common-rail system
- Injection response of common-rail units
- Design and control of solenoid valve injector
- Design and control of piezo-injectors
- Design and operation of sensors and actuators
- Design and operation of high-pressure generating systems
- How high-pressure regulation works
- Pilot injection
- Main injection
- Post injection
- Regeneration of soot particle filter
- Zero fuel correction

- Course duration: 20 h approx.