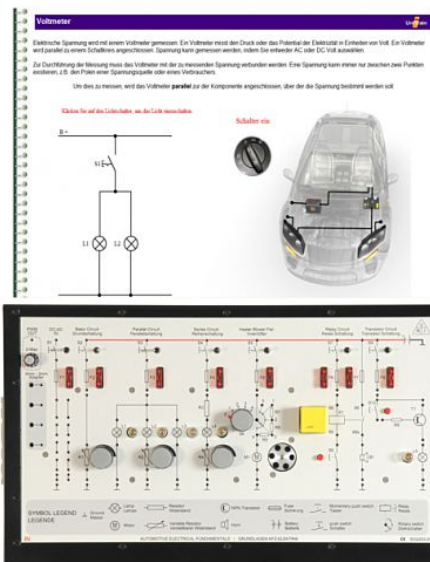


Item No.: SO4205-1G

Course Automotive 18: Fundamentals of automotive electrics (Europe/South America/Africa)

Includes:

- 1 experiment board equipped with
 - set of lamps
 - set of resistors
 - transistor
 - relay
 - fuses
 - switches
 - motor
- CD-ROM with Labsoft browser and course software



Training Content

Electrical principles specifically explained for automotive applications

- Voltage DC, AC and PWM
- Resistance
- Current
- Ohms law
- Series and parallel and mixed circuits
- Understanding automotive circuits, wiring diagrams and electrical symbols

Automotive electrical component testing and diagnosis

- Fuses
- Relays
- Switches
- Transistors
- Potentiometers
- DC motors
- Light globes
- Power supplies

Automotive circuits

- Brake light circuit
- Instrument panel dimmer circuit
- Heater blower fan variable speed circuit
- Horn circuit

Use of typical automotive diagnostic tools found in the workshop

- Digital Multimeter
- Voltmeter
- Ohmmeter
- Ammeter
- Test light
- Oscilloscope

Diagnosing of common automotive circuit failures and components with built in automatic fault switching in the following areas

- Open circuits
- Short circuits
- Faulty components