

Item No.: CO4204-7A

Course - Automotive 1: "DC and AC circuits in vehicles"

This training system provides trainees with the perfect introduction to the topics of direct and alternating current. All the relevant contents are taught with the help of easily understood animations and interactive experiments. Thanks to the numerous test pages in the course, teachers can obtain feedback on students' progress at any time, as can the individual students themselves.

Training contents:

- Fundamentals of electricity
- Circuits
- Measurement of voltage and current
- Calculation of current, voltage and resistance
- Series circuits
- Parallel circuits
- Mixed series and parallel circuits
- Ohm's law
- Kirchhoff's 1st law
- Kirchhoff's 2nd law
- Simple voltage dividers
- Temperature-dependent NTC (negative temperature coefficient) thermistors
- Temperature-dependent PTC (positive temperature coefficient) thermistors
- Light-dependent resistors (LDRs)
- Voltage-dependent resistors (VDRs)
- Troubleshooting (9 simulated faults activated by relays)
- Course duration: 10 h approx. (including about 1.5 h for troubleshooting)

Includes:

- 1 Experiment card with various resistor circuits
- 1 Experiment card with voltage divider circuits
- 1 Experiment card with circuits for investigating temperature-dependent, light-dependent and voltage-dependent resistors
- Storage case
- Disc with Labsoft browser and course software

