

Item No.: SO4204-6Z

Course - Automotive 11: Airbag, belt tensioners and crash response

Includes:

- 1 experiment card with model of a motor vehicle with driver's airbag, front passenger airbag, side airbags on driver's and passenger's sides, head airbags and belt tensioners for driver and front passenger, fault indicator-LED, reset button and CAN bus interface
- 1 experiment card with airbag-related sensors (acceleration sensor on moving mechanism, catapult installation, seat occupancy switch, pressure sensor, safety switch)
- CD-ROM with Labsoft browser and course software
- Portable case for storage and transport

Training contents:

- Active and passive safety in motor vehicles
- Purpose and function of airbags and belt tensioners
- How the airbag igniter works
- Purpose and function of the safety switch
- Purpose and function of the acceleration sensor
- Measuring acceleration
- Purpose and function of the pressure sensor
- Typical collision situations
- Seat occupancy detection
- Trip times and sequences
- Fault management in airbag systems
- Fault simulation (4 simulated faults individually activated via relays)
- Course duration: approx. 8 h (of which approx. 1 h fault simulation)

