Overview of HV qualifications after SOP as per DGUV-I 209-093

Entry requirements for participants	Qualification path		Activities
None. Staff performing general maintenance and service activities and mechanical work on intrinsically safe electric or hybrid vehicles	Electrically trained personnel DGUV I 209-093 Intrinsically safe HV vehicles 2 hours Certificate		**Electrically trained personnel (ETP)** • All non-electrical work carried out on the intrinsically safe HV vehicle
Persons without previous electrical engineering knowledge with technical training e.g. mechanic	Basic module High-voltage technician for intrinsically safe HV vehicle systems DGUV I 209-093 Intrinsically safe HV vehic 5 days Test	Technical module High-voltage technician for intrinsically safe HV vehicle systems DGUV I 209-093 Intrinsically safe HV veh 5 days Test Certificate	**High-voltage technicians (HVT) for intrinsically safe HV systems** ✓ Performance of repetitive, similar activities according to work instructions on the HV system, e.g. • Unlocking • Securing against restarting • Exchange of HV components • Commissioning
Persons with previous knowledge of electrical engineering in the motor vehicle sector, e.g. motor vehicle electricians, motor vehicle mechatronics engineers, motor vehicle mechanics		Technical module High-voltage technician for intrinsically safe HV vehicle systems DGUV I 209-093 Intrinsically safe HV veh 5 days Test Certificate	
Electrics specialists who have already worked for several years as ES in the low voltage range (up to 1000 V), e.g. industrial electricians, electricians, electrical engineers, etc.	Test: Training is completed with a test Certificate: Participant receives a certificate with passed test	Specialist module High-voltage expert for intrinsically safe HV vehicle systems DGUV-I 209-093 Intrinsically safe HV vehi 3 days Test Certificate	**High-voltage expert (HVE)** ✓ Carrying out all activities on the HV system in a de-energised state in accordance with the electrotechnical rules

© ITW-Schindler GmbH