

Applying for Qualification for High Voltage Complete Equipment Sets



Overview

This article provides a systematic explanation of the complete DGUV 209-093 qualification levels framework: the four tiers, the distinction between S-track and E-track, prerequisites, and key implementation considerations. All workers engaged in electrical work on fixed electrical installations must be registered with the Electrical and Mechanical Services Department (EMSD). The purpose is to ensure that such work is carried out only by qualified electrical workers. European occupational safety law places the primary duty of care on the employer. Compared to the download version published in July 2021 of the present document, the following amendments were made in cl. 4 Qualification Level 2S: Fachkundige Person (FHV): more information regarding the skilled occupations where the necessary knowledge can be obtained as well as regarding. To protect workshop employees, the German Social Accident Insurance (DGUV) stipulates the following qualifications for persons who carry out work on series production vehicles equipped with high-voltage systems and associated components. The determination of readiness for authorisation is the responsibility of the employer. See also the term 'Switching Person' below.



Article Content

High Voltage Standard

After having successfully completed the High Voltage Operations module, the participants will be trained in safe

High Voltage Authorised Persons Course (HVAP)

High Voltage Authorised Person Training Course (HVAP) Course Content: Requirements of statutory regulation/legislation. Types of

Pre-commissioning of Electrical Systems

Pre-commissioning is complete once you've completed all your checklist and verified that each piece of equipment

Training for work on vehicles with high voltage systems

It describes necessary qualification measures for work in research, development and production as well as in service shops.

High Voltage Qualified | 600V

High Voltage Qualified Based on the OSHA & NFPA 70E Standards Class Overview Working on or above

Check list for working on electric vehicles | DEHN

To ensure that all employees have the necessary knowledge and qualifications for working on vehicles with high-voltage systems,

Technical Management and Risk Prevention and Control of High and

This paper comprehensively explores the technical management and risk prevention of high and low voltage

Training for work on vehicles with high voltage systems

Foreword
 3.1 Responsibility
 Entrepreneurial action
 Responsible supervision in the HV area
 Fachkundige Person Hochvolt (FHV)
 Fachkundig unterwiesene Person (FuP)
 3.2 Risk assessment
 3.2.2 Protective measures against electrical hazards
 Five safety rules
 Five safety rules
 Rule 2: Secure against reconnection
 Rule 3: Verify that the installation is de-energised
 Rule 4: Carry out grounding and short-circuiting
 Completion of the work
 3.2.3 Examples of protective measures
 Live
 High voltages
 4.1.1 General
 4.1.2 Qualification Level E: Sensibilisierte Person
 4.1.3 Qualification Level 1E: Fachkundig unterwiesene Person (FuP)
 The topics of this instruction must include:
 4.1.5 Qualification level 3E: Fachkundige Person für Arbeiten an unter Spannung stehenden HV Systemen
 4.2.1 Assembly
 4.2.2 Commissioning (Finish)
 4.2.2.1 Commissioning of batteries with full protection against accidental contact and arcing
 5.1.2 Qualification Level S: Sensibilisierte Person
 5.1.3 Qualification Level 1S: Fachkundig unterwiesene Person (FuP)
 These topics of this instruction must include:
 5.1.5 Qualification Level 3S: Fachkundige Person für Arbeiten an unter Spannung stehenden HV Systemen
 Topics covered by the training for work on high voltage systems in development and manufacture
 Basic electrical knowledge
 Electrical hazards and first aid
 Specialist and man-management responsibility
 Employee qualification in the area of electrical engineering vs. HV technology
 Safe work methods for work on live HV systems (Level 3E)
 Types, structure, specific features and risk potential of HV energy storage systems (Level 3E)
 Work on live HV components (Level 3E)
 Flow chart: Need for training for service work requiring Level 1S/2S
 Topics covered by the training for FHV for work on series production vehicles with HV systems
 Basic electrical knowledge
 Electrical hazards and first aid
 Measures for protection against electric shock and fault arcs
 Specialist and man-management responsibility
 HV concept and vehicle engineering
 General practical procedure
 Safe work methods for work on live HV systems (Level 3E)
 Types, structure, specific features and risk potential of HV energy storage systems (Level 3E)
 Live work on HV components (Level 3E)
 Subject of the training in accordance with DGUV Information 209-093:
 Glinkastraße 40 10117 Berlin Telefon: 030 13001 0 (Zentrale) E Mail: info@dguv
 Internet: automotive technology increasingly uses high-voltage systems. Wherever work is performed on vehicles equipped with such systems, one must always expect electrical hazards in the form of electric shock or arcing. The present DGUV Information contains instructions for the employer on how he or she can organize safe working on vehicles equipped w...
 See more on publikationen.dguv
 Motorservice

HV qualification: Training & safety for electric vehicles

Safety rules, dangers & the importance of qualified electricians when working on electric vehicles/high-voltage vehicles are discussed

Registering as an Electrical Worker for Electrical Work (662)

To be qualified, an applicant must possess appropriate qualifications, training and experience. Detailed requirements are shown in

What is high voltage and low voltage complete set

Want to fully understand what high and low voltage complete sets of equipment are and want to explore the

e-Hazard High Voltage Qualified Outline

7. Mobile Equipment General Requirements Inspections & Dielectric Testing Regulations Qualified HV Operations

European HV Safety Regulations for EV Manufacturers | E-Safe

European HV safety regulations require every worker on high-voltage EV systems to hold documented qualifications under DGUV

DGUV 209-093 Qualification Levels: Stufe S to Stufe 3 | E-Safe

DGUV 209-093 translates these legal requirements into a qualification framework specifically designed for high-voltage vehicle work.

Installation and commissioning for high-voltage products | Hitachi Energy

Correct installation and commissioning for high-voltage products will ensure a high degree of operational reliability.

HVET 2024 | High Voltage Engineering and Testing Training Course

HVET 2024 | High Voltage Engineering and Testing Training Course

High Voltage Training

Electrical Systems Onboard Marine Vessel – contd. High Voltage Vs Low Voltage System High voltage systems are more extensive

(ev) high voltage training

All necessary qualifications in accordance with DGUV I 209-093 for the development and production of (ev) high voltage vehicles, HV

A Complete Guide to High Voltage Equipment Testing

Get a complete overview of high voltage equipment testing. Find out how to maintain accuracy, reduce risks, and

High voltage station

High Voltage Station – 3 Main Processes The development of a high-voltage (HV) substation is a massive

Drive electric mobility safely Safe working on high voltage systems

Properly qualified for safe work on high-voltage systems ing on high-voltage systems, depending on the working environment. Here

Training for Work on Vehicles with High Voltage Systems

As electric and hybrid vehicles become more prevalent, the need for specialized training to handle their high voltage

High Voltage (HV) Systems Training Course | TÜV SÜD

With our practical online training course, employees will be aware of the dangers associated with high voltage (HV) systems and how

High Voltage Training 2026

The High Voltage Training course aims to educate participants about the safety requirements for high voltage equipment and

High and low voltage complete sets of equipment

PRODUCTS High and low voltage complete sets of equipment You are here [Home](#) > Products > List

City & Guilds Accredited High Voltage Authorised Persons Course

City & Guilds Accredited Certificate in High Voltage Authorised Persons course is suitable for all levels of candidates Upon

Contact Us

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