

TruckTrain "Hybrid and Electric Heavy Duty Vehicle"

The electrification of the powertrain is not only implemented in the field of passenger cars, but is also suitable for the field of commercial vehicles. Both a truck and an agricultural machine can be used as hybrid or even electric versions. This circumstance has now also been taken into account in the training regulations, which have taken up the topic of "electric mobility" in connection with commercial vehicles. In order to be able to optimally prepare the trainees for this challenge in the field of commercial vehicles, the renowned HV training system for passenger cars from Lucas-Nülle has been modified and adapted to the new topic accordingly. The special learning concept of the training system, which combines theoretical and practical content in a target group-oriented manner, enables flexible on-site implementation that is taking regional, operational and industry-specific features into account.

The following topics are covered by the training system:

- Operation of vehicles and systems and protective measures
- Analysis of high-voltage systems / preparation for country specific qualification
- Activation of a high voltage system according to manufacturer's specifications
- Perform diagnosis of faults and malfunctions in high-voltage systems and their components
- Carry out and document potential equalization and insulation resistance measurements on the vehicle
- Put the high-voltage system back into operation according to the manufacturer's instructions

The following knowledge is conveyed by the training system:

- Apply safety rules to avoid dangers from electric current
- Identify risks to health and safety at work and take measures to prevent them
- Apply occupational safety and accident prevention regulations
- Plan and define work steps and processes according to functional, organizational, technical and economic criteria as well as manufacturer's specifications
- Prepare the workplace in consideration of the work order
- Apply test methods and test equipment according to requirements
- Presenting and presenting the results of work

