
Overview

This standard is about testing, removing, and storing high voltage battery systems in electric vehicles. This may be relevant for vehicle dismantling or recycling operations.

For the purposes of this standard, an electric vehicle is any vehicle that is in part or wholly electrically propelled. This would include:

- Hybrid (HEV) - to include mild/micro hybrid vehicles where the voltage is considered dangerous.
- Plug-in Hybrid (PHEV)
- Extended Range Electric Vehicle (ER-EV) or Range Extended Electric Vehicle (RE-EV)
- Battery Electric Vehicle (BEV) or Pure Electric Vehicle (PEV)
- Fuel Cell Electric Vehicle (FCEV).

Warning: It has been recommended by industry experts that only those with suitable training and experience on working with electric vehicles should carry out the functions below.

Performance criteria

You must be able to:

P1 Collect and analyse relevant technical information prior to commencing work on the vehicle

P2 Carry out a dynamic risk assessment of the vehicle and the work to be carried out

P3 Wear **personal protective equipment** (PPE) and use vehicle protection equipment (VPE) appropriate to the work activities you are carrying out

P4 Carry out thorough inspection of the external and visible parts of the high voltage battery, connections and cables for signs of **damage**

P5 Follow your organisation's and manufacturers' instructions if **damage** to the high voltage battery, connections and cables is found

P6 Isolate the high voltage system as per manufacturer's guidance

P7 Use test **equipment** in line with manufacturer's guidelines to ensure the integrity of the high voltage battery and the high voltage system prior to commencing removal

P8 Ensure all work carried out takes place immediately following inspection where possible or carry out a re-inspection following timescales recommended by the manufacturer

P9 Select, check and use appropriate tools/lifting **equipment** in line with manufacturer's guidelines and specification

P10 Remove the high voltage battery following manufacturer's guidelines and place in a suitable, isolated area with restricted access and correct signage

P11 Ensure records of work are accurate complete and passed to the relevant person in the format required.

P12 Follow workplace procedures in case of emergency

IMIEV06

Test, remove and store electric vehicle high voltage batteries



Knowledge and understanding

You need to know and understand: