



Safe Work inside HV-batteries – A hands on course to learn routines on how to repair lithium-ion batteries

This course is a hands on training on how to perform safe work inside HV (Hazardous Voltage) lithium-ion battery packs and modules by following the relevant industry standards. The content is aimed for technicians and engineers who working close to or inside lithium-ion batteries or related power electronics in electric vehicles. The course is based on lectures, battery tear-down demos and hands-on battery disassembly by following safety routines and standards.

The lecturer is a specialist with long experience of lithium-ion battery systems.

Course length: 12 hours, mixed as lectures, demos and labs

Course overview:

- Theory and preparations
 - Battery System Design overview
 - Electrical Safety Routines
 - Appropriate safety equipment
- Demo of battery disassembly in workshop environment
- Lab: Hands-on work with lithium battery
 - Disassembly and re-assembly of battery pack and modules
 - Summary & reflection

Prerequisites

- CPR training for electrical hazards
- HV Electrical Safety (Standards and Implementation)

Course target group:

Technicians and engineers working with HV batteries (e.g. development, repair, maintenance, service and after-market)

Course outcomes:

- Theoretical and hand-on knowledge on how to perform work inside HV batteries in a safe and controlled way.