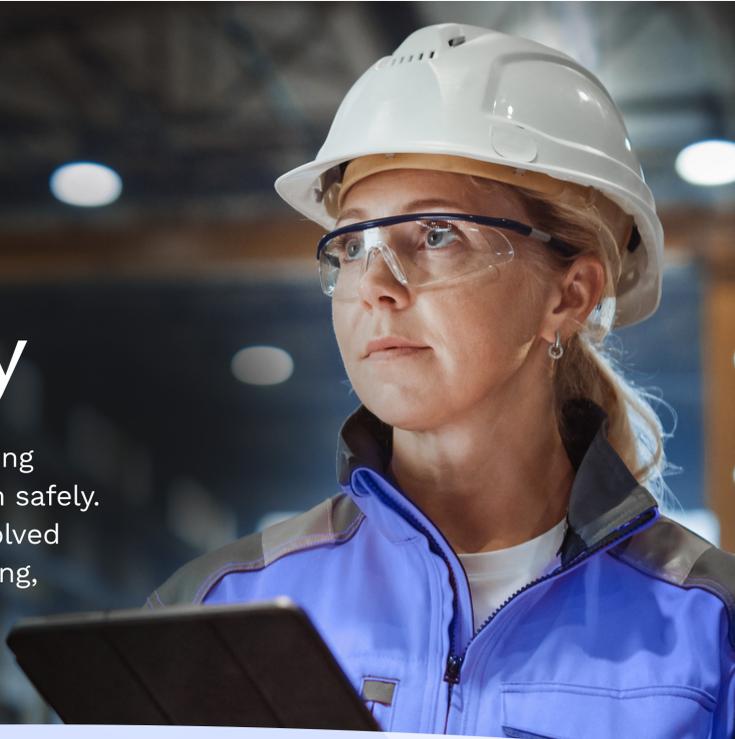


# Introduction to Battery Safety

As the need for efficient batteries is growing fast, it's vital to know how to handle them safely. This course is relevant for any worker involved in fabricating, handling, transporting, storing, or disposing of batteries.



## Who is the course for?

- Battery Safety Officers
- Calibration technicians
- Battery Test Technicians
- Cell Assembly Technicians
- Battery Assembly Technicians
- Testing engineers
- Quality system engineers
- Control systems engineers



## What will you learn?

- Administrative and engineering safety controls
- Safety risks in producing, handling, transporting, storing, or recycling battery cells or battery packs
- Ensuring safety compliance at any stage of battery cell or battery pack manufacturing and disposal
- Appropriate PPE to comply with safety protocols
- Relevant safety regulations to ensure compliance (EU-OSHA)

## Lesson breakdown

Total course duration: 3 hours (divided in eight 20-minute sessions) | Virtual

### 1. General Safety: Regulation, Roles, Responsibilities, and Controls

The crucial role of safety regulations in the battery industry and going beyond pure compliance.

### 2. Battery Cell Production Process

The four main stages of battery cell production, the safety hazards associated with each stage, and safety measures for risk mitigation.

### 3. Battery and Cell Charging and Testing

Critical aspects of battery testing, its importance for safety, and how to maintain a safe battery testing environment.

### 4. Safe Shipping and Transportation of Batteries

The standards and regulations for safe transportation of lithium and experimental batteries.

### 5. Battery Fundamentals

Key electrical principles like Ohm's Law and how they apply to battery safety.

### 6. Battery Pack Production Process

The two main stages of battery module and pack assembly, the safety hazards associated with each stage, and safety measures for risk mitigation.

### 7. Handling and Storage of Batteries and Cells

Safety aspects of handling and storing batteries and cells to reduce risks like thermal runaway and short circuits.

### 8. Waste Management and Recycling

Waste management and recycling of various battery types.



## Our lessons are...

- Designed to educate learners of all skill levels
- Interactive and engaging
- Supported by video content
- Backed up by downloadable content for further learning
- Delivered by industry experts
- Concluded with a graded assessment