

COURSE CONTENT OVERVIEW

Lithium-Ion Battery Safety Training

In today's workplace, due to their advanced performance, we are increasingly reliant on devices and equipment powered by lithium-ion batteries. With this increased adoption comes the responsibility of understanding the associated risks.

This course will provide learners with the essential knowledge and practical guidance to safely use, purchase, store, dispose of and risk-assess products containing lithium-ion batteries within the workplace. By the end of this course, learners will also be aware of the relevant legislation and associated legal responsibilities, helping to achieve a safer work environment for everyone and significantly reduce the likelihood of lithium-ion battery-related incidents.

Module 1: Introduction To Lithium-Ion Battery Safety

This module looks at lithium-ion batteries, how they work, where you might encounter them, why they are increasingly used across all workplaces, the types of equipment they may be found in and the risks that they can pose.

- What are lithium-ion batteries?
- Why use lithium-ion batteries
- What do lithium-ion batteries look like?
- The use of lithium-ion batteries in the workplace
- Risks associated with lithium-ion batteries

Module 2: Managing The Risks Associated With Lithium-Ion Batteries

This module outlines the five key steps involved in conducting a risk assessment and how learners can apply them in their own workplace. These include identifying, evaluating and controlling the risks associated with using, handling, storing and disposing of lithium-ion batteries, as well as ensuring all significant findings are recorded and reviewed on a regular basis.

- What is a risk assessment?
- Who should carry out the risk assessment?
- Five key steps to a risk assessment
 - Identifying the hazards
 - Decide who might be harmed and how
 - Evaluate and control the risks
 - Record your findings
 - Regularly review the risks and controls

Module 3: Emergency Arrangements

This module discusses how to respond safely and effectively should a lithium-ion battery incident occur in the workplace, including the key characteristics of lithium-ion batteries and recognising the warning signs of a failing battery. It will also cover the key components of a workplace emergency plan and procedures, as required by the Regulatory Reform (Fire Safety) Order 2005, detailing the responsibilities of both employers and employees.

- Fire characteristics
- Recognising the warning signs
- Emergency plans and procedures
- Employer and employee responsibilities

Aims of the training

By the end of this course, learners will be able to:

- Explain the importance of working with lithium-ion batteries safely.
- Identify the hazards associated with lithium-ion battery technology.
- Describe how to safely handle, charge, store, transport and dispose of lithium-ion batteries in the workplace.
- Understand their legal responsibilities regarding lithium-ion battery safety.
- Outline the process of an effective risk assessment.
- Explain how to respond appropriately to a lithium-ion battery incident to minimise potential harm.