

## Fundamentals of Lithium-Ion Cells and Batteries

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**Duration** 45 Minutes

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**Target group** Oil & Gas Industry (Onshore & Offshore)

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**Prerequisites** No prerequisites are required to sit this course.

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**Objective**

- LO1: Give an overview of the history of batteries
- LO2: Explain how a battery works
- LO3: Explain the structure and function of lithium-ion batteries
- LO4: Describe the different types of lithium battery
- LO5: List some examples of incidents involving batteries
- LO6: Explain the hazards associated with the use of batteries
- LO7: Explain the hazard symbols and packaging labels used with batteries
- LO8: Explain how to work with batteries safely
- LO9: Explain what to do in an incident involving batteries
- LO10: Explain how to safely dispose of batteries
- LO11: List the legislation and regulations relevant to batteries

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**Contents**

The aim of this course is to introduce delegates to the fundamentals of lithium and ion-cell batteries, including how batteries operate, the associated hazards, symbols and labelling, and how to work with batteries safely.

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**Exam**

The assessment is taken during the course and is within the expected duration.