Cold Cut Academy

Cobra & EV Battery Fire Course



The Cobra and EV Battery Fire Course is a theoretical course that teaches you how to safely and efficiently plan and carry out firefighting operations on electric vehicles with propagating Li-ion battery fires.

We will start by exploring the batteries' geometry, chemistry, and fire behaviour to understand better how these types of fires develop. You will learn about the potential risks, effective ways to minimise them, and strategies to stop propagation and thermal runaway. We will also discuss tactics, organisation, and the resources recommended to extinguish electric vehicle fires involving batteries. By the end of the course, you will have the skills to plan and implement Cobra as the primary firefighting tool when dealing with propagating Li-ion batteries.

The course can be conducted either on-site at your location or as e-learning. The on-site course are held in groups of 10–25 participants to ensure an optimal environment for questions and discussions.

We welcome incident commanders, officers, instructors, firefighters and individuals with other relevant backgrounds. To benefit from the course, we recommend some prior experience and understanding of Cobra and its tactical principles.



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Cobra & EV Battery Fire Course



Course Facts	
Course Aim	The aim of the course is to understand the risks involved in a Li-ion battery- powered vehicle and how to mitigate these risks to be able to resolve the incident utilising Cobra.
Course Objectives	 After completing the course, the student will be able to: Explain the geometry, chemistry, and fire behaviour in Li-ion batteries. Understand the risks posed by battery electric vehicle (BEV) fires and explain ways to assess and mitigate these risks. Explain the method of flooding water through a Li-ion battery pack in a BEV to stop thermal runaway and propagation in the battery pack. Explain the tactics and resources needed to use Cobra as the primary extinguishing tool in a BEV Li-ion battery pack fire. Explain the risks of stranded energy and how to handle a battery post-intervention in a Li-ion BEV.
Target Group	Incident commanders, other operational officers, instructors, and firefighters.
Recommended Experience	Firefighter or other relevant background.

On-site Course	
Instructor	Led by a Cobra Senior Instructor.
Students	Requires a minimum of 10 and a maximum of 25 students.
Type of Course	Theoretical classroom-based course.
Facility Requirements	Classroom with a computer and a large screen to present course material.
Course Length	2 hours.
Price	Contact Cold Cut Systems for pricing.

E-learning course	
Instructor	Opportunity to ask questions directly to a Cobra Senior Instructor through the e-learning platform.
Type of Course	Theoretical e-learning course.
Facility Requirements	Access to a computer and Wi-Fi.
Course Length	Approximately 4 hours.
Course duration	You have three weeks to complete the course.
Price	Contact Cold Cut Systems for pricing.

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