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| **1.43 Lithium-ion Batteries Fire Protection** |
| Level | 2 |
| Duration | Minimum of 6 hours |
| CFPA-E Points | 6 |
| Aim | To provide an overview of the Hazards, interventions and preventive measures when using Lithium-ion batteries |
| Target Public | Fire Protection Manager, Fire safety Coordinator, safety managers risk and any interested parties. |
| Prerequisites | None – although it would be beneficial that delegates have a basic knowledge of fire prevention systems and techniques |
| Progression | Courses from the CFPA qualifications framework to broaden knowledge in either Fire Safety or Risk Management |
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| Learning Outcomes | Understand the chemistry, behaviour and operation of Lithium-ion batteries. |
|  | Recognise potential fire hazards based on the size, output, type and construction method of the Lithium-ion batteries |
|  | Participants should be able to distinguish factors that can lead to lithium-ion battery fires, such as overcharging, overheating, physical damage, manufacturing defects, or mishandling. |
|  | Implement preventive measures. Participants should demonstrate best practices for preventing lithium-ion battery fires, including proper storage charging and handling procedures |
|  | Formulate an effective response to battery fires and differentiate the causes and likely outcomes |
|  | Implement a culture of safety within their organisation or community |
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| Related Guidelines | 1 F; 13 F; 23 F; 41 F |
| Assessment  | A written assessment in the area that is designed for 30 minutes in duration |
| Qualifications | Attest |