

LITHIUM-ION BATTERY TRAINING RESOURCES



Lithium-Ion Battery Training Resources

This one-pager provides a directory of organizations from the Congressional Fire Services Institute (CFSI) National Advisory Committee offering lithium-ion battery training programs, reports, and resources aiming to facilitate access to crucial expertise in this rapidly evolving field. Each entry includes a brief description and a direct link.

American Fire Sprinkler Association

[Electromobility - Understanding the Potential Hazards and Safety Measures](#):

This training covers lithium-ion battery uses at all scales, the causes of fires and explosions, and key strategies for risk mitigation.

Center for Campus Fire Safety

[Micromobility/Lithium-Ion Battery Fire Reporting Program](#): This report collects micromobility and lithium-ion battery fire data for On-Campus, Office Campus, and Greek Housing incidents, as defined by CCFS criteria.

International Association of Arson Investigators

[Lithium-Ion Battery Fires](#): This program explains what lithium-ion batteries are, how they are constructed, where they are used, safety concerns, and how they can cause fires and explosions.

International Association of Fire Chiefs

[IAFC Lithium-Ion Batteries Committee](#): The IAFC Lithium-Ion Battery Committee meets monthly to discuss critical related issues for Lithium-Ion Batteries the IAFC established a resource to help leaders.

International Association of Fire Fighters

[Responding to Renewable Energies](#): These lithium-ion battery advisories and reports provide critical insights into fire risks, incident data, and safety recommendations for first responders and the public.

National Fire Protection Association

[Charge into Fire Safety™: Lithium-Ion Batteries in Your Home](#): Lithium-ion batteries are widely used in everyday devices, but when damaged or misused, they pose fire and explosion risks—prompting NFPA to offer resources promoting safer use across various applications.

National Fire Sprinkler Association

[Lithium-Ion Batteries and Fire Sprinklers Guide](#): As lithium-ion battery use grows across sectors, the NFSA's revised *Lithium-Ion Batteries and Fire Sprinklers Guide* provides essential guidance on fire safety and hazard management.

North American Fire Training Directors

[Fire Incident Response Simulated](#)

[Training \(FIRST\)](#): This immersive program allows firefighters to train in realistic virtual scenarios, portraying an electric vehicle fire and an energy storage system fire in a residential garage.

[Distributed Energy Resources Field](#)

[Familiarization Guide](#): This training assists fire service personnel who are participating in an on site field familiarization of a Battery Energy Storage System, electric vehicle, or a residential photovoltaic/solar panel system.

UL Fire Safety Research Institute

[Take C.H.A.R.G.E. of Battery Fire Safety](#):

Provides lithium-ion battery fire safety for the public from choosing safety-certified products all the way through recycling them.

[Fire Service Considerations with Lithium-Ion Battery Energy Storage Systems](#):

This course examines a lithium-ion battery deflagration incident in Surprise, Arizona, using firsthand insights to inform recommendations for improving codes, standards, and emergency response training.

[The Science of Fire and Explosion](#)

[Hazards from Lithium-Ion Batteries](#): This course covers foundational research on lithium-ion batteries and thermal runaway, helping you recognize fire and explosion risks in both personal and professional settings.

UL Safety & Engagement

[Raising the Risk: How Safety Oversight of E-Mobility Riders Threaten More](#)

[Lithium-Ion Battery Fires](#): As e-mobility devices like e-bikes and e-scooters rapidly expand, this report reveals significant knowledge gaps among users about the lithium-ion battery technology powering them.