

Training Course

Basic Course in Vehicle Fire Risk Assessment



Course Description

The course is designed for those who may be involved in the design, operation and maintenance of buses. Course material is based on knowledge gained through origin and cause investigations, industry input and real world examples from fire risk assessments and fire investigations on various bus fuel types and mode.

The instructors are highly experienced and accredited individuals who are active in industry safety councils and are experienced in fire risk assessment, investigations and mitigation methods including fire detection and suppression systems.

Attendees will become more knowledgeable about how fires occur, what issues lead up to the event and best practices to minimize the risks.



The training course includes the following topics but are not limited to:

1. Introduction to Fire Basics

2. Fire Risk and Threats

- Flammable Fluid Fires
- Electrical Fires
- Friction fires (wheel well, brakes etc.)

3. Vehicle Design (includes emerging energy types)

- Operational Characteristics (vehicle type, duty cycle, environment)
- Hazard Analysis (effects of Geometry, Ventilation, Clutter)

4. Fire Detection

- Detector Types
- False Alarms vs Fast Detection
- Applicability to Bus Hazards

5. Fire Suppression

- Agent Types
- How they work
- Distribution systems (includes nozzles)

6. Other fire mitigation methods

7. Vehicle Integration (shutdowns)

8. Review of Global Standards and Legislation

9. Best Practices

- Clamping / Routing
- Separation of heat (ignition) and fuel sources (hoses, cables, combustible materials)
- Maintenance (mistake proofing, "what if")

The training course is a half day class.

Advanced courses in electrical fires and hybrid/electric vehicles are also available.

