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## 2 day Electrical Course for Fire Investigators

The course is designed for suitably trained fire investigators in the public and/or private sector, for example: fire officers, Police Scenes of Crimes Officers, Forensic Scientists and Forensic Engineers.

Course outline/content:

- Attendees will construct various types of electrical circuits. Understand conventional electrical wiring systems including relevant aspects of the UK wiring regulations.
- Understand electrical safety when investigating fire scenes.
- Input on the correct use of a volt stick and a generic multi-meter.
- Input on the various types of circuit protection devices. Including: Fuses, Miniature Circuit Breakers (MCBs) and Residual Current Devices (RCDs).
- The hazards of cannabis factories and micro-generation of electricity (solar panels etc.)
- Input to assist attendees with identifying evidential indicators at scenes that will support or refute an electrical cause.
- Input covering the use of the electrical system with determining an area of origin (Arc Mapping).
- An electrical appliance workshop (taking appliances apart, understanding how they work, what's protecting them from starting a fire and then overriding the devices).
- Examining damaged equipment/appliances back at the office/laboratory. Evidential indicators and the approach of an appliance examination.
- Presentations will include relevant case studies.
- Comprehensive student handouts are included.

The course is normally undertaken at a suitable location with outside facilities to enable electrical demonstrations which include small electrical appliances.