

## Fire & Explosion Investigation

MDE provides a complete line of services in fire scene origin and cause. The engineers and investigators are experts' in fire scene documentation, origin and cause determination and litigation support. Evidence is carefully collected and documented at the scene then stored utilizing a secure handling and inventory tracking system to maintain "chain of custody" and to preserve for litigation.

### Fire & Explosion Litigation Services

- Testing of subject and exemplar devices
- Data collection during the operation of appliances
- 3D visualization of fire mathematical modeling
- 3D graphics to visualize a fire scene or failure mode
- Fire debris examination & chemical analysis
- Opposition fire report review and critique
- Expert testimony

### Subrogation

- Origin and cause determination
- Elimination of potential causation factors
- Failure analysis of appliances
- Failure analysis of electrical components
- Failure analysis of metallurgical components

### Fire & Explosion Scene Services

- Site investigation and documentation
- Evidence collection and preservation
- Large loss expert coordination
- Explosion investigation
- Total Station 3D precision scene mapping

### Laboratory Fire & Explosion Science

- Full and reduced scale fire and explosion testing
- Heat transfer and thermodynamic analysis
- Ignitable liquid residue analysis
- Full laboratory fire analysis
- Computer fire modeling and analysis

MDE is a comprehensive firm that has a track record of successful fire and explosion investigation and litigation projects. When you need a fire and explosion expert you need the experts at MDE.

