



Vermont Chapter

International Association of Arson Investigators

SEMINAR NOTICE

Feb 2nd, 2015

Overview of the Investigation of Fires Involving Lighting Fixtures / Overheated Electrical Connections –Theory and Diagnosis

PROGRAM INFORMATION

Presented By David Powell, CFI and owner of Sytek Consultants

David Powell has been involved in Electrical and Mechanical Fire analysis since 1983 and is nationally recognized expert in the analysis of fire damaged light fixtures and has expertise in the evaluation and identification of Arcing, Melting and Alloying of conductors. Additionally he holds an AAS in Fire Protection, a BS in Mechanical Engineering and an ASM diploma in Non-Ferrous Metallurgy.

Morning Session- Overview of the Investigation of Fires Involving Lighting Fixtures

This program is oriented toward municipal and public fire investigators in order to familiarize them with the operation of various electric lighting sources that they may encounter at fire scenes. Incandescent lighting, fluorescent lighting, HID lighting, CFL lamps and LED lighting will be covered. Some examples of possible fire producing modes and failures of the various lighting sources will be discussed. The response of the materials used in the various lighting sources to fire heat will also be reviewed.

Lunch – Provided with seminar fee Afternoon Session– Overheated Electrical Connections – Theory and Diagnosis

This presentation is a short introduction to the theory of mechanically made electrical connections and how and why there is resistance at every such connection. There is a brief introduction into the physics of mechanical-electrical connections and the materials used to make them. The damage caused by overheating connections will be illustrated with numerous images of real world examples. The problems of field installed aluminum connections will be addressed. There will be a discussion of how overheated connections are examined at the fire scene and in the laboratory. If the time slot allows, an expanded discussion and presentation about overheating at the connections in receptacles can be included. This bonus section includes how receptacles are constructed and the numerous possible locations of overheating in the receptacle-plug system.

The Vermont Chapter of the International Association of Arson Investigators is dedicated to improving the professional development of fire and explosion investigators and their investigations by being the state resource for fire investigation training, technology and research.

DATE

FEB 2, 2015
COFFEE AND
REGISTRATION 0800-
0830

LOCATION

Masonic Lodge
288 Gallison Hill Rd
Montpelier

PROGRAM FEES

\$ 30 for Members
\$ 45 for Non-
members

Non-members can
sign up for the
remainder of the year
for program fee

Lunch Provided

The Vermont Chapter of the
International Association of
Arson Investigators

REGISTRATION FORM

Class begins at 8:30 a.m. and ends by 4:00 p.m. on Monday Feb 2nd 2015

Note: These courses will be tested for those that wish, with certificates issued.

CE credits - 3 hours for Morning session and 2.5 hours for the Afternoon session

Application deadline is Jan 26th 2015.

Class size is limited and applications are accepted on a first come, first served basis. Early registration is encouraged!

Name	Job Title
Business / Department	
Address	
Phone	Email

Return to:

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Program Fee
Please select one of the following payment options:
\$ 30 for Members \$ 45 for Non-members

- Check enclosed payable to: VT CHAPTER IAAI
- Department PO enclosed
- VT CHAPTER IAAI member

