

# FIRE PATTERN

## Determining Origin, Cause and Responsibility Relating to Electrical

This course is a shortened version of the PATC 2.5 day course and will quickly cover a lot of material. Attendees should be familiar with the current NFPA 921 chapters that identify various patterns.

**Course Overview:** This course will familiarize participants with understanding what capabilities other experts can bring to the investigation, a basic understanding of a residential electrical system, what electrical evidence is present following a fire and what does that evidence tell us about how the fire started.

We will discuss how the actions of the firefighters will affect other experts who may be called in to further examine key pieces of potential evidence. You will see actual case studies where firefighters preserved the fire scene and potential evidence was successfully recovered. You will also see case studies where the actions of the fire suppression crews destroyed any and all evidence that would have been in the fire scene. We will discuss the importance of having staff investigators educate all firefighters about potential evidence.

We will go into detail regarding residential electrical relating to the origin, cause determinations and your responsibility.

### Details

**Seminar location:** East Moline School  
Professional Development Greenview Room  
3451 Morton Drive  
East Moline IL, 61244

**When:** Saturday, April 6, 2019

**8:00:** Sign in/Registration & receive material for class

**Registration fee:** \$10 Includes handout material, coffee, breaks and lunch.

**DEADLINE to REGISTER: MARCH 27, 2019**

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1-800-BOARDUP

For more information or to register, call or text Mike Whitson at 309.337.1959.

**OR**

Mail registration form with payment

Mike Whitson

102 Innovation Way

Colona, IL 61241

Attendee Name: \_\_\_\_\_

Agency: \_\_\_\_\_

Agency Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Registration fee \$10 included Y N**

**Want CEU? Y N** Take the test IMMEDIATELY following the class!!

### **Instructor: Steve Chasteen, AIFireE, C.F.I., C.F.E.I**

- Steve Chasteen has been in the fire service since 1972 serving as a volunteer and full time career firefighter and company officer for 27 years for the City of Bloomington IL. FD. Steve also worked as a private fire investigator in the insurance industry conducting fire investigations for the past 32 years. He has conducted more than 2,800 fire scene examinations. Steve has testified extensively in both State and Federal court as an expert witness.
- “Field Staff Instructor” with the University of IL FSI.
- Consultant with various local and State fire and law enforcement agencies around the country to provide assistance in fire investigation and fire scene analysis. Steve has provided expert assistance to prosecutors in criminal cases as well as the insurance industry and manufacturers in civil cases.

### **Instructor: Robert J. Markiewicz, Jr., C.F.I., C.F.E.I.**

- Robert J. Markiewicz, Jr. is an electrical engineer with Schaefer Engineering, Inc. He graduated with an Electrical Engineering degree from the University of Missouri-Rolla in 1996 and is a registered professional engineer in several states. Upon graduation Rob was commissioned and entered into military service. Rob served on active duty for four years and has continued his military service with the Army Reserve.
- Upon completion of his active duty service, Rob joined an information technology networking company where he provided the facility planning and implementation of Metropolitan Area Networks in various markets.
- Since 2001, Rob has provided engineering consulting services in the areas of electrical systems and equipment failure analysis, electrical injury and electrocution investigations, and fire causation investigations for commercial, residential and vehicular fire losses.
- In addition to his PE registration, Rob is an IAAI Certified Fire Investigator (CFI), a Certified Fire and Explosion Investigator (CFEI) and Missouri Private Fire Investigator (MO-PFI). He is a member of various professional organizations including the Institute of Electrical and Electronics Engineers (IEEE), the International Association of Arson Investigators (IAAI), the National Association of Fire Investigators (NAFI) and the National Fire Protection Association (NFPA).

## **Seminar Agenda**

### **Morning session**

- 8:00 Registration
- 8:30 Preserve the Fire Scene
- 9:00 Electrical evidence and artifacts
- 9:30 Working with Insurance Company experts
- Noon Lunch

### **Afternoon session**

- 1:00 Investigator Roles
- 1:30 Residential Electrical Systems
- 2:00 Fire Effects on an electrical system
- 2:30 Electrical failures as ignitions sources
- 3:00 Appliance/device failures
- 3:30 Determine cause