

Note: Please Read

This training module will utilize both class-room and hands-on practical exercises to maximize learning.

For the practical exercises we will provide all the necessary testing and documentation equipment. We recommend you bring with you an electrical appliance, (Toaster, Coffee Pot, Hair Dryer, etc., that you **NO LONGER NEED**).

Important

This three (3) day training module is presented in a very user friendly and easy to understand method of instruction. This **IS NOT** presented from an electrical engineer's perspective. You **WILL** be able to put into immediate investigative practice the skills that you learn in this training.

Important for NAFI-CFEI®, and IAAI Certified Fire Investigators (IAAI-CFI®), at the end of this course, a post-test will be given for toward IAAI points, and CFEI hours for re-certification.

“The Certified Fire and Explosion Investigator (C.F.E.I.) Examination”

(National Association Of Fire Investigators)

Will Be Offered and Applications Accepted At This class.

Applicants MUST join online at www.nafi.org if not already a member

Certifications will be granted to those whose applications are accepted and who pass the examination. Applications for certification will be available at the class. For additional information call the NAFI office at (877) 506-NAFI or visit the Website at www.nafi.org Membership is \$55.00 per year. Certification cost is \$125.00. You must be a member to be and remain certified, but you may join at the time of certification. **Examinations will be offered the first evening.**

Please go to www.nafi.org to download CFEI application and have completed prior to class. Bring application to class, do not mail to NAFI

PRESORTED
STANDARD
POSTAGE & FEES
PAID
INDIANAPOLIS, IN
PERMIT NO. 1547



Public Agency Training Council

5235 Decatur Blvd
Indianapolis, Indiana 46241

Phone: 1-800-365-0119

Fax: 317-821-5096

Email: questions@patc.com

Visit us on the Web at:

www.patc.com

May 7, 8 & 9, 2019 • Manassas Park, Virginia

Public Agency Training Council

Mark Waterfill, President



National Criminal Justice
Public Safety Continuing Education

Sponsored By:

Manassas Park Fire and Rescue

Manassas Park, Virginia

This course approved to receive DEPARTMENT OF CRIMINAL JUSTICE SERVICES (DCJS) in-service training credit hours.

Training Seminar Hands-On Electrical Fire/Arson Investigation

Tactics, Techniques and Procedures in Electrical Fire Origin and Cause Determination, Investigation and Documentation

Steve Riggs, CFEI, CFII & CVFI
(Retired) State of Oklahoma

Steve Riggs retired after twenty-two years of Law Enforcement, and Fire Service Experience in Oklahoma. Steve has been examining fire scenes for 40 years. Steve has extensive training in Fire Cause Determination, Criminal Investigation, Arson Investigation, Evidence Processing, Interviewing Techniques, and Case Management. He is a certified Police and Fire Instructor, and a Certified Fire Investigator Instructor. Mr. Riggs has successfully been involved in many Fire/Arson Prosecutions in Oklahoma, and was involved in a Federal Prosecution. To date, he has never lost an arson case. Steve has authored and co-authored several fire training manuals and written "A Critical Analysis of NFPA 921 User's Manual 2nd Edition. Steve lectures nationally to Local, State, Federal Agencies, Insurance, private, and military Investigators, prosecutors, vehicle manufacture representatives and their engineers. Steve continues to examine fires in the private sector.

May 7, 8 & 9, 2019

Manassas Park, Virginia

Register online at: www.patc.com

Hands-On Electrical Fire/Arson Investigation

Course Objectives

This training module will provide the fire/arson investigator with practical and technical skills necessary to investigate and determine electrical origin and cause of a fire.

This training module will provide both classroom and hands-on training with practical exercises on how to use electrical testing equipment and conduct a systematic accurate examination of electrical equipment, appliances, wiring and electrical circuits.

Attendees will be provided the necessary knowledge of electricity, the definition of electricity, how it cause fires, and how to testify in court for successful prosecution, and/or insurance determination.

Upon Successful Completion

Attendees will have been provided the skills and knowledge to:

- Demonstrate the proper sequence for investigating electrical fires.
- Understand electrical terminology.
- Demonstrate a working knowledge of 120/240 volt wiring used in residential and commercial settings and testing procedures.
- Demonstrate a working knowledge of electrical appliances and testing procedures.
- Demonstrate a working knowledge of electrical testing equipment, volt ohm meter, and ampere meter.
- Demonstrate a working knowledge of safety devices, controls and failures on appliances.
- Demonstrate the knowledge of how to document an electrical origin.
- Demonstrate knowledge of National Fire Protection Association 921 and National Fire Protection Association 1033.
- Demonstrate knowledge of how to use the internet to conduct fire/arson investigation research and obtain electrical equipment/appliance recall information.

Seminar Agenda Hands-On Electrical Fire/Arson Investigation

May 7, 8 & 9, 2019 • Manassas Park, Virginia

Tuesday, May 7, 2019

- 8:00 a.m. – 8:30 a.m. **Registration**
- 8:30 a.m. – 9:30 a.m. Electrical Overview
- 9:30 a.m. – 12:00 p.m. Electricity
• Basic Electricity
• Terminology
• Electrical Investigating Sequence
- 12:00 p.m. – 1:00 p.m. **Lunch (On-Own)**
- 1:00 p.m. – 3:00 p.m. Electricity, *Continued*
- 3:00 p.m. – 5:00 p.m. Electrical Testing Equipment

Wednesday, May 8, 2019

- 8:00 a.m. – 9:15 a.m. Internet Research for Recalls, Fire, Police, Private and Insurance Investigation Sites
- 9:30 a.m. – 11:00 a.m. Appliance Controls and Safety Devices Including Charts
- 11:00 a.m. – 12:00p.m. How to Test Appliances
- 12:00 p.m. – 1:00 p.m. **Lunch (On Own)**
- 1:00 p.m. – 2:30 p.m. Practical Exercise— Attendees Will Disassemble and Test Appliance Controls and Safety Devices
- 2:30 p.m. – 4:00 p.m. Practical Exercise—Attendees Check
• Open and Closed Circuits of Various Breakers, Switches, Fuses
• Locate and Test Circuits in Electrical Panel Box
• Check Amperage on Operating Equipment
- 2:30 p.m. – 4:00 p.m. Outside Demonstration and Class Participation Live Burns of Appliances, Wires, and Electrical Failures
- 4:00 p.m. – 5:00 p.m. Final Questions & Overview of the Day

Thursday, May 9, 2019

- 8:00 a.m. – 9:15 a.m. Spoliation (Destruction) of Evidence (Civil Tort)
- 9:15 a.m. – 10:15 a.m. Impact of N.F.P.A. 921, N.F.P.A. 1033, and Testifying on Electrical Fire Investigations. Review National Certifications available to the Investigator
- 10:15 a.m. – 12:00 p.m. Practical Exercise—Attendees will be Assigned an Electrical Fire Case to Investigate Conduct Tests, Determine the Cause, Document, and Prepare a Case Report From Items Burned the Previous Day Case Presentation From Groups Investigation and Their Findings
- 12:00 p.m. **Certificate Presentation**

Cut Along Dotted Line

3 Ways to Register for a Seminar!

1. **Register Online** at www.patc.com - Yellow link in upper left corner
2. **Fax Form** to Public Agency Training Council **FAX: 1-317-821-5096**
3. **Mail Form** to

Public Agency Training Council
5235 Decatur Blvd
Indianapolis, Indiana 46241

***NEW**

Federal ID# 47-4078912

***NEW**

***** Pre-payment is not required to register *****

Upon receiving your registration we will send an invoice to the department or agency.

Checks, Claim Forms, Purchase Orders should be made payable to:

Public Agency Training Council

If you have any questions please call
317-821-5085 (Indianapolis)
800-365-0119 (Outside Indianapolis)



Seminar Title: Hands-On Electrical Fire/Arson Investigation

Instructors: Steve Riggs

Seminar Location: Manassas Park Community Center
99 Adams Street
Manassas Park, Virginia 20111

When: May 7, 8 & 9, 2019

Registration Time: 8:00 A.M. (May 7, 2019)

Hotel Reservations: Holiday Inn Express & Suites
10810 Battleview Parkway
Manassas, Virginia 20109
1-703-393-9797
\$93.00 Single or Double (plus tax)

Registration Fee: \$325.00 Includes Hands-On Electrical Fire/Arson Investigation Course Material, Coffee Breaks, and Certificate of Completion.

**Seminar ID
#16080**

**Note: Identify with PATC
May to receive discounted
room rates**

Names of Attendees 1. _____

2. _____

3. _____

4. _____

Agency _____

Invoice To Attn: _____
(Must Be Completed)

Address _____

City _____ **State** _____ **Zip** _____

Email _____

Phone _____

Fax _____