



## **PAAI JUNE TRAINING SEMINAR**

**June 21-23, 2021**

**RAMADA INN STATE COLLEGE, PA 814-238-3001**

**Call the hotel directly for reservations**

**(PAAI ROOM RATE \$70.00/night + TAXES)**

### **ELECTRICAL ASPECTS OF FIRE INVESTIGATION**

This course addresses the critical skills essential to the effective investigation and evaluation of fires involving potential electrical fire causes. This course utilizes state of the art techniques, practices, protocols and standards to assist investigators to properly and effectively evaluate electrical systems and associated components to ascertain their role in a fire. Students will be provided with a basic knowledge of electricity, electrical circuits and distribution systems, proper evaluation and recognition of common electrical faults and failures of electrical components and circuits, as well as a working knowledge of the National Electrical Code (NEC) and how it applies to fire investigations. The use of “Arc Mapping” will also be discussed and how it can be effectively used to assist in fire origin determination. Participants will also be able to demonstrate a general knowledge of electricity, electrical circuits, systems and arc mapping principles through a series of instructor-led “hands-on” practical exercises.

Topics to be covered: Scene Safety; Definitions / Terms; Atomic Theory and Electricity; Ohm’s Law / Joules’ Law; Magnetism; AC vs. DC; Transformers; Three Phase Power; Branch Circuits; Service Entrance; Meter Usage; Circuit Breakers; Wiring; Measuring Voltage & Current; Electrical Failure; Evidence Collection; Scene Processing; Electrical Heating; Arcing Through Char & Melting; Examination Hints; Myth Avoidance; Arc Mapping; Open Neutral Failure; Intrusion Alarm and Surveillance Systems; Electrical Examinations; and Case Studies.

**Instructor: Mike Keller PE    Facilitator: Kevin Pezzano, IAAI-CFI (V)**

#### **Required Prerequisites**

**CFITrainer.Net® Module Prerequisites:**

- Arc Mapping Basics
- Basic Electricity
- Electrical Safety
- Residential Electrical Systems
- Introduction to Evidence

**\*\*\* (CFItrainer.net transcript with courses highlighted or copies of certificates must be submitted with registration; incomplete applications will be rejected.) \*\*\***

***Training CEU’s per day 7 Hours for IAAI and ICC certifications***

**Attendees will be required to bring basic tools and safety equipment including safety glasses, gloves, screwdrivers, side cutters and electrical tape. Students will work in a group setting for portions of this class.**

**Class size is limited to 60 people**



## Schedule of Events

Classroom portion will be held at the Ramada Inn in State College. Burn demonstrations will occur at the Centre Region Training Center on Monday and Tuesday afternoon.

**MONDAY – JUNE 21, 2021**

**07:30-08:00 – Registration**

**08:00-08:15 President Welcome Message**

**08:15 – 12:00 – Class Instruction**

**12:00 – 12:45 Lunch (Provided)**

**13:15 – 16:30 Class Instruction**

**General Business Meeting will start no earlier than 16:30. Includes elections & swearing in of officers**

**18:30 ICE Breaker Dinner at outdoor Pool, Weather permitting**

**TUESDAY – JUNE 22, 2021**

**08:30 – 12:30 Class Instruction**

**12:30-13:15 – Lunch (Provided)**

**13:30 – 16:30 Class Instruction and Demonstrations**

**WEDNESDAY – JUNE 23, 2021**

**08:00 – 12:00 Class Instruction**

**12:00 – 13:00 Lunch (Provided)**

**13:00 – 16:30 Class Instruction**

Course cost: **\$425.00** Early registration \$400.00 by **May 10, 2021**.

(Price includes training, lunches, ice breaker dinner, hospitality room and all breaks)



## JUNE 2021 TRAINING REGISTRATION

**Cost for the seminar: \$425**  
**EARLY REGISTRATION AND FEES**  
**POST MARKED BY May 10, 2021- \$400**

SEND COMPLETED REGISTRATION TO:  
Nancy Love: 585 Firethorn Drive, Monroeville, PA 15146  
[Nancy.Love@AlleghenyCounty.US](mailto:Nancy.Love@AlleghenyCounty.US)

**Please type or print legibly!!**

NAME: \_\_\_\_\_ PAAI NO. \_\_\_\_\_

EMAIL: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

City, State & Zip: \_\_\_\_\_

PHONE NO \_\_\_\_\_

COMPANY \_\_\_\_\_

\_\_\_\_ I will be attending the full training session. \$425.00 (Early Registration \$400.00)

\_\_\_\_ I wish to attend the **Ice Breaker Dinner Only** \$45

\_\_\_\_ I wish to attend **the Ice Breaker and Hospitality Room only** \$85

\*\*\* Do you have special Dietary needs? If so, please contact Kevin Pezzano at least 2 weeks prior to the training session so we can try to accommodate those needs. \*\*\*

EARLY REGISTRATION: \$400.00 POST MARKED BY May 10, 2021  
CHECK OR MONEY ORDER MADE OUT TO: PAAI  
Those wishing to pay by Credit Card can do so using the links below



**Early Registration: \$400 Postmarked by May 10, 2021**

**Registration after May 10, 2021 \$425.00**

Make checks payable to "PAFI"

*\*\*If you wish to pay by credit card please use the inks below:*

[Electrical Aspects Registration](#)

[Ice Breaker Only](#)

[Ice Breaker and Hospitality Room Only](#)

**Send completed registration, payment, and prerequisites  
to Nancy Love:**

585 Firethorn Dr, Monroeville, PA 15146

Nancy.Love@allegHENYcounty.us