



PAAI JACK CHRISTMAS TRAINING SEMINAR JANUARY 22-24, 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. Portions of the class will be held at the Centre Region Fire Training Center.



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 Friday and Saturday afternoon.

Friday -January 22, 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 & Demonstrations

General Business Meeting will start no earlier than 16:30.

18:30 ICE Breaker Dinner at indoor Pool

Saturday January 23, 2021

08:30 – 12:30 Class Instruction

12:30-13:15 – Lunch (Provided)

13:30 – 16:30 Class Instruction and Demonstrations

Sunday January 24, 2021

08:00 – 12:00 Class Instruction

12:00 – 13:00 Lunch (Provided)

13:00 – 16:30 Class Instruction & Demonstrations

Course cost: **\$425.00** Early registration \$400.00 by **December 1, 2020**.

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

*******BOARD DIRECTORS MEETING Thursday January 21 @ 19:00 *******



Jack Christmas 2021 TRAINING REGISTRATION

Cost for the seminar: \$425

EARLY REGISTRATION AND FEES

POST MARKED BY December 1, 2020- \$400

SEND COMPLETED REGISTRATION TO:

Nancy Love: 585 Firethorn Drive, Monroeville, PA 15146

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 December 1, 2020

CHECK OR MONEY ORDER MADE OUT TO: PAAI

Those wishing to pay by Credit Card can contact Nancy via E-mail for details.