

FreemanFire Inspectors

Fireplace, Chimney & Hearth Appliance Inspection. Litigation Support. Consulting.



detNAME: **Daniel A. Freeman, IAAI-FIT®**

President, Freeman Fire Inspectors, Ltd.
President, The Chimney Doctor, Ltd.
President, Inspection Fire LLC
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EDUCATION: **Mesa Community College. Mesa, AZ 08/2001-5/2007**

- Associates of Arts in General Business
 - Some courses at Chandler/Gilbert Community College, Gilbert, AZ 08/2001-05/2003
- University of Phoenix, Phoenix, AZ 11/2006-5/2008**
Western Governors University, Salt Lake City, UT
- Bachelor of Science in Marketing Management, 6/2009
 - Masters of Business Administration, 6/2010

CERTIFICATIONS, PROFESSIONAL AFFILIATIONS, & LICENSES:

International Association of Arson Investigators (IAAI) Member #1408251

Fire Investigation Technician (IAAI-FIT) 10/27/2021-10/27/2024

National Association of Fire Investigators (NAFI) Member #26681

02/12/2022-02/12/2025

Fireplace Investigation, Research & Education Service (F.I.R.E. Service)

F.I.R.E. Certified Fireplace & Chimney Inspector FCI-338, 8/28/2021-8/28/2027

Hearth Patio & Barbeque Association, Rocky Mountain Affiliate Member #132227

National Fireplace Institute (NFI) Member #175637

NFI Certified Instructor 5/2021-Present

NFI Certified Master Hearth Professional #175637 3/11/2019-12/31/2024

NFI Certified Pellet Specialist 3/11/2019-12/31/2024

NFI Certified Gas Specialist 8/17/2018-12/31/2024

NFI Certified Woodburning Specialist 8/16/2018-12/31/2024

National Chimney Sweep Guild (NCSG)

Honorary Master Chimney Professional - 6/1/2023-11/30/2024

Certified Master Chimney Technician #225 - 7/31/2021-7/31/2023

Certified Chimney Reliner #104 - 4/26/2018-4/25/2020, 10/2020-10/2022

Certified Chimney Professional #583 - 4/25/2018-4/24/2020, 10/2020-10/2022

**CCP & CCR could not be renewed in 2022 as I helped write the new exam/certification*

Chimney Safety Institute of America (CSIA)

CSIA Certified Chimney Specialist #41 - 5/17/2021-3/31/2026

CSIA Certified Chimney Sweep #9430 - 3/31/2017-3/31/2026

Certified Dryer Exhaust Technician (C-DET) #1137 - 5/2018-5/31/2027

International Code Council (ICC) Member #9688396

ICC Certified Residential Mechanical Inspector (M-1) - 5/25/21-05/24/2027

ICC G29 Master Mechanical Exam, Passed 11/14/2022
ICC G12 General Contractor Class B Exam, Passed 10/9/2021

Heatshield / SaverSystems

Heatshield Certified Installer - 11/06/2017-Present (Last Refresher 06/29/2020)

Contractor Licenses

Utah General Building Contractor (B100) #11686508-5501 03/25/2020-11/30/2025

Federal Aviation Administration

Remote Pilot #4923515 11/17/2023-11/30/2025

BACKGROUND & EXPERIENCE:

01/2021-Present: Copperfield Academy, Copperfield Chimney Supply - Instructor

Began instructing for Copperfield officially in 2021 as an instructor teaching technical courses.

01/2021-Present: Inspection Fire LLC - President, Lead Designer

Development of chimney inspection forms, software, and chimney camera inspection kits to aid professional sweeps and inspectors in presenting their findings and services in more professional ways. The associated app will aid sweeps, inspectors, and installers to follow and more easily adhere to proper protocols and professional job performance standards.

03/2020-Present: Freeman Fire Inspectors Ltd - President, Investigator, Instructor, Consultant

Teaching business and technical courses in the chimney and hearth industry, and beginning to consult with other companies and individuals regarding their businesses and their respective inspection, repair, and installation methodologies, processes, and procedures. To date instructed at events for Copperfield Chimney Supply, the National Chimney Sweep Guild (NCSG), and the Chimney Safety Institute of America (CSIA). Additionally conducting fire and loss investigations or NFPA style inspections following losses for contractors or insurance companies upon request. Expert witness and consulting work.

06/2016-Present: The Chimney Doctor Ltd - President, Chief Operations Officer, Inspector

Specializing as inspectors The Chimney Doctor and its employees focus on chimney and appliance inspection, service, sweeping, repair, and installation of heat-producing devices and their chimneys. Continuing education is at the core of who we are and what we do.

October 2013-June 2016 Clean Sweep Chimney Services

Swept chimneys, installed fireplaces, inserts, liners, etc... as an apprentice and was introduced into the chimney and hearth industry.

PROFESSIONAL ACTIVITIES:

NCSG Official Representative to the ICC Code Council - 2/10/2024-Present

Appointed as the NCSG Official Representative to monitor and submit comments to the International Code Council regarding the Icodes (IRC, IMC, IBC, IFB, etc...) on 3/18/24. As part of this appointment, I monitor code cycles, comment on suggested changes, suggest changes in the best interest of the industry and report back to the Advocacy Committee.

NCSG Official Representative to the UL STC 103 & 127 - 2/10/2024-Present

Appointed as the NCSG Official Representative to the UL STC 103 & 127 covering the UL standards shown below on 3/18/24. As part of this appointment, I participate in standard cycles, comment on suggested changes, suggest changes in the best interest of the industry and report back to the Advocacy Committee.

NFPA Committee Member for NFPA 211: Chimneys, Fireplace, and Venting Systems for Heat Producing Appliances - 8/23/2023-Present

Officially appointed as a member of the committee on 8/23/2023

UL/ULC Standards Technical Committee Member (STP0103) - 2/11/2022-Present

Officially appointed as a member of the STC on 2/11/2022 and then appointed as the NCSG official representative to this committee on 2/10/2024 (documented publicly 3/18/24) regarding:

- **UL103** - Factory-Built Chimneys for Residential Type and Building Heating Appliances
- **UL441** - Gas Vents
- **UL641** - Type L Low-Temperature Venting Systems
- **UL959** - Medium Heat Appliance Factory-Built Chimneys
- **UL1738** - Venting Systems for Gas Burning Appliances, Categories II, III, IV
- **UL1777** - Chimney Liners
- **UL2112** - Outline of Investigation for Venting Systems for Use with Gas-Fired Direct Vent Appliances
- **UL2561** - 1400 Degree Fahrenheit Factory-Built Chimneys

UL/ULC Standards Technical Committee Member (STP0127) - 11/17/2021-Present

Originally I was asked to participate (not as an official member) and provide perspective to the sub-task group in 8/2021 in the exploration of creating new listings regarding the installation of inserts into masonry fireplaces and factory-built fireplaces and chimneys. This relates specifically to the development of UL1390 and UL1391. Officially accepted as a member of the STC on 11/17/2021 and then appointed as the NCSG official representative to this committee on 2/10/2024 (documented publicly 3/18/24) regarding:

- **UL127** - Factory-Built Fireplaces
- **UL737** - Safety Fireplace Stoves
- **UL907** - Fireplace Accessories
- **UL1482** - Solid-Fuel Type Room Heaters
- **UL1618** - Wall Protectors, Floor Protectors, and Hearth Extensions
- **UL2115** - Processed Solid-Fuel Firelogs and Firestarters
- **UL2162** - Commercial Wood-Fired Backing Ovens - Refractory Type
- As of today still under Development:
 - **UL1390**-Solid-Fuel Inserts for Installation into Masonry Fireplaces

- **UL1391-Solid-Fuel Inserts for Installation into Factory-Built Fireplaces**

Solid Fuel Insert Research Task Force Member - 4/1/2021-Present

Organized a 10-member task force to explore the installation of solid-fuel inserts into factory-built fireplaces and compose an authoritative white paper on the topic. Generally met quarterly. Grants and funding may be sought to pursue live testing. Other members of the task force include Bill Ryan, Dale Feb, David Steward, Eron Armour, Jacob Feb, Genevieve Bures, Michael Segerstrom, Thom Heller, and Zigi Godomski (Canada).

Copperfield Academy

Worked as a subject matter expert in the development of various dockets, SOPs, and checklists to be used during the function of work completed by professionals in the field.

- 05/2024 - Docket Development: Participated in the development of SOP's and associated checklist to set industry best practices within the process of Stove Installations and Liner Sizing. A total of 6 subject matter experts were selected, including Bill Ryan, Michael Segerstrom, Eron Armour, David Kline, and myself. 05/16/2024-05/17/2024.
- 09/2023 - Docket Development: Participated in the development of SOPs and associated checklist to set industry best practices within the process of Chimney Relining and Professional Fireplace Replacement. A total of 6 subject matter experts were selected, including Bill Ryan, Michael Segerstrom, Eron Armour, Omie Johnson, Jim Walling, and myself. 09/21-09/22/2023.
- 11/2022 - Docket Development: Participated in the development of SOPs and associated checklist to set industry best practices within the process of Sweeping and as required to meet the requirements of a Level I Inspection as specified in the NFPA211. A total of 7 subject matter experts were selected, including Bill Ryan, Michael Segerstrom, Eron Armour, Omie Johnson, Rick and Terri Pocock, and myself. 11/06-11/07/2022.
- 03/2021 - Docket Development: Participated in the development of SOPs and associated checklists to set industry best practices as required to meet the requirements of a Level II Inspection as specified in the NFPA211. A total of 4 subject matter experts were selected, including Bill Ryan, Michael Segerston, Eron Armour, and myself. 03/15-03/16/2021.

NCSG ANSI Accredited Certification

Item Writing - Subject Matter Expert

One of 17 subject matter experts selected to participate in reviewing, editing, adjusting, and adapting every question in the test bank for the assigned certifications. We will spend 2 days together before the 2024 NCSG Convention in Orlando, FL.
3/18/2024-3/19/2024

Standard Setting - Subject Matter Expert

One of 6 subject matter experts selected to participate in reviewing, editing, adjusting, and adapting every question in the test bank for the assigned certifications. We spent 2 days together before the 2022 NCSG Chimney Expo in King of Prussia, PA, and then continued our assignments individually at home through 9/23/2022.
8/9/2022-8/10/2022

Job Task Analysis - Subject Matter Expert

One of 15 subject matter experts selected to participate in a nationwide Job Task Analysis to draft and finalize the certification program schemes (minimum qualifications, recertification timelines, and requirements), as well as draft and update content areas (job tasks and knowledge required for the job roles) that will serve as the basis for the 1) Certified Chimney Professional, 2) Certified Chimney Reliner, and 3) Certified Chimney Journeyman. Chicago, 8/30/2021-9/2/2021

NCSG Events Committee / Speaker Selection Committee

Volunteered for the Event Committee leading into the 2022 events and was asked to serve on the Speaker Selection Sub-Committee. 2022-Present

LECTURES TAUGHT:

Copperfield Academy

“Factory Built Fireplace Change Outs / Hands-On Rip & Replace Training” was a live class including 12 hours of classroom instruction and 4 hours of hands-on training. The course covered understanding the need for replacement, aftermarket vs OEM parts, benefits of a replacement, replacement appliances, other contractor logistics, pricing and estimating to include all requirements, the importance of addressing concealed construction defects, understanding the nuances of codes, standards, and installation instructions, tools and supplies, framing basics, fireplace removal, chase preparation, installing the new unit, finishing materials, and final wrap-up with the client.

- 2022/02/22-23 - Colorado Springs, CO
- 2022/02/02-03 - Golden, CO
- 2022/01/19-20 - Sonora, CA

“Hands-On Chimney Relining Workshop” was a live class including 4 hours of classroom instruction and 4 hours of hands-on training. Knowing when and how to reline a chimney and understanding the circumstances when relining is not an option. Copperfield Academy. Copperfield Chimney Supply.

- 2023/05/25 - Golden, CO
- 2022/05/26 - Albuquerque, NM
- 2022/05/20 - Golden, CO
- 2021/04 - Skiatook, OK
- 2021/04 - Greeley, CO

“Managing & Performing Complex Inspections” was a live class including 2 hours of classroom instruction. Topics covered included how to handle inspection requests for HOAs, condos, apartment buildings, and complexes where multiple systems are being inspected, handling inspection requests, preliminary legwork (before the job but after the acceptance), performing the job, reporting options, pricing, providing estimates, etc...

- 2022/07/28-29 - Tulsa, OK
- 2022/07-25-26 - Golden, CO

- 2022/07/20-21 - Manchester, NH
- 2022/07/14-15 - Scranton, PA

“NFI Gas Review” was a live class including 8 hours of classroom instruction.

- 2022/04/13 - Golden, CO

“Professional Chimney Sweeping” was a live class including 6.5-8 hours of classroom instruction. Included training on sweeping history, need for sweeping, taking calls and setting expectations, client interactions, protecting the home, soot control, technician safety, sweeping methods: push, pull, or spin, rods and brushes, optimal sweep head usage, inspection of the system, and customer wrap-up.

- 2022/04/29 - Mission Viejo, CA
- 2022/04/27 - Sonora, CA
- 2022/04/21 - Tigard, OR

“Professional Factory Built Fireplace Replacement” was a live class including 10 hours of classroom instruction and 6 hours of hands-on training. The course covered understanding the need for replacement, aftermarket vs OEM parts, benefits of a replacement, replacement appliances, other contractor logistics, pricing and estimating to include all requirements, the importance of addressing concealed construction defects, understanding the nuances of codes, standards, and installation instructions, tools and supplies, framing basics, fireplace removal, chase preparation, installing the new unit, finishing materials, and final wrap-up with the client.

- 2024/05/30-31 - Denver, CO
- 2023/02/23-24 - Albuquerque, NM
- 2023/01/26-27 - Topeka, KS

Hearth Patio & Barbeque Association (HPBA)

“Appliance Installation and Limiting Liability” was a live class including 3 hours of instruction.

- 2024/06/13 - Blackhawk, CO - RMHPBA Event

“Understanding Pyrolysis and Appliance Testing” was a live class including 3 hours of classroom instruction.

- 2024/06/13 - Blackhawk, CO - RMHPBA Event

International Association of Arson Investigators (IAAI)

“The Little Known Evolution of Solid Fuel Inserts & Their Potential Failure Points” explores the evolution and history of the listings, codes, and standards surrounding solid-fuel inserts and what is tested and what is not. Look at the dozens of discrepancies and potential failure points between solid-fuel inserts and the fireplaces into which they are installed. Get a glimpse of the new UL1390 standard (solid-fuel inserts in masonry fireplaces) and the proposed UL1391 standard (solid-fuel inserts in factory-built fireplaces). List some studies in past decades related to solid-fuel inserts and then consider the impact on future installations. 3-4 hours. IAAI International Trade Convention, Las Vegas, NV. 4/11/2024

National Chimney Sweep Guild (NCSG)

“UL 1390 and UL 1391 Insert Update” explores the new and proposed UL standards for the installation of solid-fuel inserts and hearth-mounted stoves into masonry and factory-built fireplaces and helps attendees understand the newly proposed UL 1390 Masonry Fireplace Insert Standard and UL 1391 Factory Built Fireplace Insert Standard and how to navigate forward into the future. 1.5 hours. 3/22/2024

“The Science of Thermal Decomposition Surrounding Chimneys and Heat Producing Devices (aka Pyrolysis)” was a live course exploring the science of a phenomenon our industry calls Pyrolysis. Our industry uses it improperly to encompass the degradation and fires that result from the low temperature, long-term exposure of wood to an external heat source. The purpose of the course was to teach proper scientific theory and the actual combustion pathway related to the low-temperature long-term heating of wood and other combustible materials while also dispelling myths about the process and how it occurs. This class was reviewed slide by slide with Vyto Babrauskas before presenting to assure scientific accuracy. NCSG Convention, Mohegan Sun, Uncasville, CT. 1.5 Hours. CEUs = CSIA .75 Technical, .75 Codes & Standards, NFI 1.5 Safety, Health & Liability. 3/21/2023 - NCSG Convention

“Issues Relining Does Not Fix” was a live course detailing 55 issues that relining does not address or fix by itself. The purpose of this course was to give inspectors and technicians a perspective of the system outside of the relined chimney. NCSG Convention, Mohegan Sun, Uncasville, CT. 1.5 Hours. CEUs = CSIA .75 Technical, .75 Codes & Standards, NFI 1.5 Safety, Health & Liability. 3/30/2023

“Establishing Authority through Branding & Benefiting from Niche Markets” was a virtual course helping participants understand branding, business authority, niche marketing, value as the customer perceives it, and how to set and exceed customer expectations through branding and marketing. National Chimney Sweep Guild Convention. Virtual. 1.5 Hours. 6/14/2021

Chimney Safety Institute of America (CSIA)

“Issues Relining Does Not Fix” was a live course detailing over 50 issues that relining does not address or fix by itself. The purpose of this course was to give inspectors and technicians a perspective of the system outside of the relined chimney. CSIA Homecoming Conference. Chimney Safety Institute of America. Indianapolis, IN. 1.5 Hours. CEUs = CSIA .75 Technical, .75 Codes & Standards, NFI 1.5 Safety, Health & Liability. 8/19/2021

“Firestops & Fireblocking” was a live course detailing the history and evolution of fireblocking in the codes and teaching current residential fireblocking requirements. CSIA Homecoming Conference. Chimney Safety Institute of America. Indianapolis, IN. 8/19/2021

Freeman Fire Inspectors Ltd.

7/26/2024. Private training conducted in-person at Butler Chimneys in Oconomowoc, WI included the following classes:

Last updated 4/27/2024

- 1) **“Understanding Thermal Decomposition and Appliance Testing”** (2hr, 8541)
- 2) **“NFPA 211: Understanding the Industry Standard of Care”** (1hr, 8477)
- 3) **“Inspection of Factory Built Appliances and Chimney Systems”** (2hr, 8480)
- 4) **“Inspection of Masonry Fireplaces and Chimney Systems”** (2hr, 8481)
- 5) **“Communicating Inspection Results, Documentation, Report Writing and Photo Management”** (1hr, 8540)

8/21-8/22/2024. Private training conducted in-person at Winters Stoveworks in Sonora, CA included the following classes:

- 1) **“Service & Inspection Methodology, SOPs, and Reporting”** - 8199 was a 16-hour live in-person course delivered over two days taking an in-depth look at service and inspection methodology including Level I and Level II inspection considerations. When should standard services be upgraded to a higher level of inspection and how to make the transition. Inspection considerations based on appliance types including; steel form fireboxes in masonry structures, wood stoves, factory built fireplaces, inserts, pellet stoves, and masonry systems were explored.
- 2) **“Creating Professional Service & Inspection Reports using the InspectionFire App”** - 8200 was a live in-person 4 hour class exploring what professional inspection and service reports should include and what should be left out. Discuss the reasons why professional reports will set you apart from your competition and the difference they can make on your business and the customer's experience of your professionalism. Get hands-on experience using the InspectionFire App.

6/3/2022 Private training conducted virtually for ChimneySavers located in Randolph, VT included the following class:

- 1) **“Inserts in Fireplaces and Issues Relining Does Not Address”** was a 4-hour live course delivered via Zoom discussing the current state of the development process associated with the newly proposed insert listings/standards, review of information associated with the installation of inserts into factory-built fireplaces, the effect of aftermarket components in factory-built fireplaces, a presentation on issues that relining masonry systems does not address that should be considered when performing inspections and writing estimates.

PUBLICATIONS / CONTRIBUTIONS

“UL1390 Updates: Standard for Solid-Fuel Fireplace Inserts and Hearth-Mounted Stoves for Installation into Masonry Fireplaces” was included in the November 2023 edition of Sweeping.

“UL1391 Updates: Standard for Solid-Fuel Fireplace Inserts and Hearth-Mounted Stoves for Installation into Factory-Built Fireplaces” was included in the November 2023 edition of Sweeping.

“Current Issues with Solid-Fuel Inserts in Factory Built Fireplaces and Chimneys” was written by Daniel and endorsed by Bill Ryan and Mike Segerstrom for a 2021 meeting of the STP127/S600E UL Task Group on Solid Fueled Space Heaters scheduled to take place on 8/26/2021. This original 17-page document details the real-life code, performance, and installation issues, questions, and unknowns as they currently exist with the installation of inserts into factory-built systems. Submitted to John Wade and Isabella Brodzinski at UL on 8/26/2021 and later as an attachment to an official

ballot for the STP 0127 in early 2022.

“Why Accreditation and What’s Next” was written following the meeting of the 2021 NCSG Job Task Analysis Group in August of 2021 in *Sweeping: Journal of Chimney and Venting Technology*. It details the important points of the meeting that took place, why accreditation matters, and what benefits exist as a result of the accreditation process. Published in the October 2021 edition.

PROFESSIONAL COURSES, SEMINARS, AND TRAINING ATTENDED AS A STUDENT:

Education obtained has been broken down per the categories described in 4.1.7 in the NFPA 1033 (2022) where the fire investigator is directed they “shall remain current in the subjects listed as requisite knowledge” as outlined below:

FIRE SCIENCE

Fire chemistry, thermodynamics, fire dynamics, explosion dynamics. Also see Fire Investigation for overall courses covering this topic.

International Association of Arson Investigators (IAAI) - LIVE EVENTS

CIAAI Colorado Chapter Annual Training Conference 2023 - “Advanced Track”
Fire Dynamics. James Lord. 4.25 hours. 11/02/2023

International Association of Arson Investigators (IAAI) - CFI Trainer.net

- “**Introduction to Fire Dynamics and Modeling**” provides an introduction to the principle concepts of fire dynamics, fire modeling, and how these techniques can be used in investigations. 4 hours of tested training. CFITrainer.Net 3/26/2022
- “**The Impact of Ventilation in Building Structures on Fire Development**” module examines the importance of assessing the impact of ventilation on a fire and assists the fire investigator in understanding how hot gases flow in a structure fire, what ventilation sources may be present at a structure fire, how ventilation may affect a fire, and how air flows through a compartment. 4 hours of tested training. CFITrainer.Net 03/14/2022
- “**MagneTek: A Case Study in the Daubert Challenge**” discusses the latest developments in expert testimony under the Daubert standard, including the MagneTek case recently decided in the United States Circuit Court of Appeals. 2 hours tested training. CFITrainer.Net. 11/18/2021
- “**Thermometry, Heat, and Heat Transfer**” addresses the foundations of thermometry, including the definition of temperature, the scales used to measure temperature, the devices used to measure temperature, how the fire investigator can use temperature and its measurement in the hypothesis testing process, and how knowledge of thermometry, temperature, heat, and heat transfer is applicable in a fire investigation. 3 hours of tested training. CFITrainer.Net. 10/30/2021
- “**Understanding Fire Through the Candle Experiments**” was derived from Faraday’s book, “The Chemical History of a Candle.” By performing flame experiments using a candle, analyzing the physical phenomenon observed, and demonstrating how mathematical equations explain and predict the observed physical phenomenon, you will understand basic techniques for predicting fire. 4 hours of tested training. CFITrainer.Net. 10/13/2021
- “**Fire Chemistry**” module addresses the foundations of fire chemistry and places it within the context of fire scene investigations. Topics discussed include fire, fuels, heat, ignition, flame, and flame spread. 3 hours of tested training. CFITrainer.Net. 06/22/2021
- “**Fire Flow Analysis**” module examines the fire flow path, the effects of ventilation availability and fuel availability, and the modern fire environment to help all professionals tasked with determining fire origin and cause better understand fire flow dynamics so they can apply that knowledge to specific incidents. 3 hours of tested training. CFITrainer.Net. 6/18/2021
- “**Explosion Dynamics**” module teaches the foundational knowledge of explosion dynamics including the types of explosions, proper terminology when classifying explosions and explosion damage, explosion effects, important factors in the causes of naturally occurring explosions, and the characteristics of explosives. 4 hours of tested training. CFITrainer.Net. 05/27/21

National Chimney Sweep Guild

03/16/2019 - Pyrolysis - 6736 Russ Dimmitt
04/18/2018 - Chimney Fires, Development and Preventions - 6363

National Fireplace Institute

05/04/2021 - NFI Core Knowledge

FIRE INVESTIGATION

Fire analysis, investigation methodology, technology, evidence documentation, collection, and preservation, failure analysis, and analytical tools

International Association of Arson Investigators (IAAI) - LIVE EVENTS

IAAI International Trade Convention - 04/2024

Confirmation & Expectation Bias: How Do You Un-Ring the Bell of Bias -
Christopher Elrod. Las Vegas, NV. 4 hours. 04/11/2024

Colorado Chapter - International Association of Arson Investigators - LIVE EVENTS

CIAAI Basic Fire Investigation was a live event including discussion of the basics of fire investigation, the importance of NFPA 921 and 1033, the scientific method, scene safety, electrical causation, origin and cause determination, fire dynamics, a burn cell portion to evaluate actual fire damages, report writing, origin and cause, etc... 30 hours. Kevin Crawford, Rusty Ratzloff, Allison Friesen, Brian Gies. Grand Junction, CO 09/03/2024-09/06/2024

CIAAI Annual Training Conference 2023 - Vail, CO 11/1/2023-11/3/2023

“Advanced Track”

Internet of Things, Lithium-ion Batteries, Appliances. Cameron Novak, ATF
Electrical Engineer. 8 hours. 11/01/2023

Caring for and Interviewing Traumatized Victims and Witnesses. Daniel Andrew's
& Adam Golden, Denver PD Detectives. 3.25 hours. 11/02/2023

Fire Scene Photography. Scott Renter. 4 hours. 11/03/2023

Obtaining Digital Records. Ryan McKone, ATF Special Agent. 4 hours. 11/3/2023

CIAAI 3-Day Advanced Fire Investigation - Denver, CO - 5/1/23-5/3/23

Effective Expert Witness Testimony was a live event that was part of a 3-day Advanced Fire Investigation seminar put on by the CIAAI in 2023. It explored qualifying as an expert witness, understanding your opposition, practical delivery of your case in both direct and cross-examinations and sample questions and answers. Instructor: Leif Skulborstad. Denver, CO. 5/3/2023

Fatal Fire Investigations: How the Human Body Burns & What Is Left for Fire Investigators At the Fatal Fire Scene was a live event that was part of a 3-day Advanced Fire Investigation seminar put on by the CIAAI in 2023. It explored common myths and misconceptions, fire damage to upper and lower body and extremities, effects of burning with ignitable liquids, effects of fire suppression on burned bodies, fires and burn patterns, and fire scene investigations.

Instructor: Elayne Pope. Denver, CO. 5/2/2023

Psychological Profiles & Motives of the Fire Setter was a live event that was part of a 3-day Advanced Fire Investigation seminar put on by the CIAAI in 2023. It explored the history of arson, theories of human behavior, criminal motivations, and crime patterns, profiling overviews, psychological subtypes, NLP, RPM, and recidivism. Instructor: Laura Billon. Denver, CO. 5/1/2023

CIAAI Annual Training Conference 2021 - Vail, CO 10/27/21-10/29/21

“Basic Track” was a live event suitable for those pursuing fire investigation training or those involved in the investigation or evidence collection at fire scenes. The course is based on the 2021 edition of NFPA 921 and provides the basis for professional qualifications as outlined in the NFPA 1033. Basic Track. 24-hour training. Instructors: George Coddington, Sue Cullen, Jeff Webb, Leif Skulborstad, Dana Greely, Bryan Kempa.
10/27/2021-10/29/2021

International Association of Arson Investigators (IAAI) - CFITrainer.net

“Fire Investigation for the Insurance Industry” was a 31-credit-hour certificate program. CFITrainer.Net. Completed 04/27/2024

“NFPA 1033 & 921: 2022/2021 Editions Important Updates” contain changes from their previous editions that are critical to the practice of fire investigation. This module discusses the highlights of those changes and their implications for fire investigation. 3 hours of tested training. CFITrainer.Net. 4/26/2024

“Motive, Means, and Opportunity: Determining Responsibility in an Arson Case” defines motive, means, and opportunity and provides guidance on how investigators can establish each of these factors in an incendiary fire and also provides information on arson for profit fires where insurance fraud is involved. 4 hours of tested training. CFITrainer.Net. 4/27/2024

“Fire Effects Part 2: Combustion By-Products Effects” discusses the fire effects of combustion by-products that cause discoloration and smoke deposition on surfaces. Each fire effect is defined, explained, and described in the context of a fire scene, and related to implications for fire pattern analysis that informs origin and cause determination. 3 hours of tested training. 06/08/2023

“Fire Effects Part 1: Heat Effects on Fuels” discusses the mass loss and deformation effects of heat on fuels. Each fire effect is defined, explained, and described in the context of a fire scene, and related to implications for fire pattern analysis that informs origin and cause determination. 3 hours of tested training. 04/18/2023

“NFPA 921: How this Guide Impacts Your O&C Investigation and Ultimately Your Fire Claim” put on by the National Association of Subrogation Professionals (NASP) with Todd Soong in conjunction with the IAAI. 1 hour training. 11/18/2022

“Fire Photography” will introduce the investigator to a visual skill set that will help train the investigator's eye in understanding what they are looking at while also seeing and quantifying light in a scene for best exposure construct. 2 hours of tested training. CFITrainer.Net 6/20/2022

“What the Insurance Professional Needs to Know About Fire Investigation” provides a basic framework for structuring the management of fire cases and fire investigators. 3 hours of tested training. CFITrainer.Net 03/26/2022

“Using Resources to Validate Your Hypothesis” explores how to approach the fact-finding procedures necessary to determine, document, and validate a hypothesis. 2 hours of tested training. CFITrainer.NET 03/17/2022

“Evidence Examination: What Happens at the Lab?” module takes investigators into the forensic laboratory and shows them what happens to the different types of fire scene evidence that are

typically submitted for testing: fire debris, fingerprints, tool marks, tire and footwear impressions, and trace evidence. The module also discusses techniques for successfully working with the laboratory, including communication, evidence submission, and follow-up contact. 4 hours of tested training. CFITrainer.Net 03/15/2022

“Digital Photography and the Fire Investigator” module discusses the basics of digital photography for fire investigators, software and editing procedures for digital images intended as evidence as well the very latest court decisions on the scope and admissibility of digital images in fire and explosion cases. 4 hours of tested training. CFITrainer.Net 03/15/2022

“Vetting the Expert” module is designed for Insurance Professionals and discusses the importance of selecting the appropriate expert who can render an opinion concerning the origin & cause of fires and explosions, questions to ask when vetting an expert, expert qualifications/certifications, and documentation. 4 hours of tested training. CFITrainer.Net 03/10/2022

“How First Responders Impact the Fire Scene” teaches first responders, including fire, police, and EMS, how to make critical observations and take important scene preservation actions as they discharge their first responder duties. These observations and actions are crucial to the success of the subsequent fire investigation of the scene. 2 hours of tested training. CFITrainer.Net 03/08/2022

“Discovery in Civil Cases” is an introduction to discovery in civil proceedings such as fire loss claims and product defect lawsuits. It will address basic definitions, the civil discovery process, key differences in the civil discovery process vs. criminal discovery process, the fire investigator's role related to discovery, and where discovery-related issues may arise for the fire investigator. 3 hours of tested training. CFITrainer.Net. 11/20/2021

“Discovery in Criminal Cases” is an introduction to discovery in criminal proceedings. It will address basic definitions, the criminal discovery process, the fire investigator's duties under discovery, and where issues may arise for the fire investigator related to discovery. 3 hours of tested training. CFITrainer.Net. 11/20/2021

“Emerging Technologies in Fire Investigation” looks at emerging technologies that fire investigators are integrating into their daily investigative work with great success. 3 hours of tested training. CFITrainer.Net. 11/19/2021

“Critical Thinking Solves Cases” explores how the process of investigating a fire involves more than the systematic collection of evidence or interviewing witnesses. This program explains how the fire investigator can use the information collected as part of the investigation to formulate a hypothesis and bring the case to completion. 4 hours of tested training. CFITrainer.Net. 10/27/2021

“The Deposition Part 1: Format, Content, and Preparation” introduces the fire investigator to the elements of a deposition and discusses the various lines of questioning typically pursued during the proceeding. The module concludes with a brief discussion of how a fire investigator should prepare for the deposition. 3 hours of tested training. CFITrainer.Net. 10/27/2021

“The Deposition Part 2: Questioning Tactics and Effective Responses” teaches effective responses to the most common questioning tactics. 3 hours of tested training. CFITrainer.Net. 10/27/2021

“ARC Mapping Basics” reviews Arc Mapping, or Arc Fault Circuit Analysis, and uses the electrical system to help reconstruct a scene, providing investigators with a means of determining the area of a fire's origin. This module shows how electrical circuits can be damaged by fire, discusses how electrical arcs occur, defines and describes the arc mapping technique, and provides tips for how to present the arc mapping technique and findings in legal proceedings. 4 hours of tested training. CFITrainer.Net. 10/08/2021

“Process of Elimination” discusses the use of the process of elimination in the determination of a fire cause and expands on what the 921 committee describes as negative corpus and the impact on the investigation and determination of fire cause. 3 hours of tested training. CFITrainer.Net. 10/08/2021

“NFPA 921 and 1033 2014 Editions: Important Revisions” reviews the major changes included in the

documents including the use of color photos in NFPA 921 and additional material that supports the expanded required knowledge list in NFPA 1033 Section 1.3.7. 3 hours of tested training.
CFITrainer.Net. 7/23/2021

“You’re Right - But You’re Wrong” live Zoom presentation will focus on the evidence presented at the scene, the interviews, neighborhood canvass, and other information gained through investigation and interviews that may lead to the fire being determined an incendiary fire instead of accidental, as designed by the perpetrator. IAAI Live Virtual Event. David Harlow. 2 hours of tested training.
CFITrainer.Net. 7/15/2021

“Understanding the Fire Investigator’s Job: A Guide for Non-Investigators” explains to non-investigators the role of the fire investigator, what the fire investigator does, how the fire investigator is trained, what qualifications the fire investigator must meet, the methodology for conducting a fire investigation, how the fire investigator reports findings, and how the fire investigator prepares for testimony in legal proceedings. 3 hours of tested training. CFITrainer.Net. 07/07/2021

“Ethics and Social Media” module presents and discusses hot-button ethical questions in the use of social media in both the investigative context and the professional conduct context. 3 hours of tested training. CFITrainer.net. 6/25/21

“Principles of Fire Investigation” was a 67 credit hour certificate program included in prior courses.
CFITrainer.Net. Completed 06/22/2021

“The Practical Application of the Relationship Between NFPA 1033 and NFPA 921” module explains the relationship between NFPA 1033 and NFPA 921 and shows how the scientific method, as required by NFPA 1033, is implemented at the fire scene using information from NFPA 921. 2 hours tested training. CFITrainer.Net. 6/22/2021

“The Scientific Method for Fire and Explosion Investigation” module shows, step by step, how to investigate a fire scene by applying the scientific method, develop hypotheses, test hypotheses, and accurately validate conclusions. 3 hours of tested training. CFITrainer.Net. 06/22/2021

“Writing the Initial Origin and Cause Report” module presents the key elements of the initial origin and cause report and methods of clearly presenting findings professionally. 3 hours of tested training.
CFITrainer.Net. 6/18/2021

“Understanding Undetermined” module primarily deals with "undetermined" as a cause, untangles the meanings of "undetermined," straightens out how to use the term correctly, how not to use it, and how to properly report fires where "undetermined" is the cause or classification. 3 hours of tested training. CFITrainer.Net. 6/18/2021

“Investigating a Fire Fatality; Working with Multiple Agencies for Better Results” furthers knowledge and working relationships with differing agencies that coexist at an incident involving a fire fatality and helps understand the roles and responsibilities each agency has so the investigation is conducted professionally and thoroughly. 2 hours tested training. IAAI Live Virtual Event. Scott Campau.
CFITrainer.Net. 6/17/2021

“NFPA1033 and Your Career” module educates the investigator about NFPA 1033’s importance, its requirements, and how those requirements impact the fire investigator’s professional development. 2 hours of tested training. CFITrainer.Net. 6/16/2021

“Accreditation, Certification, and Certificates” module provides a primer on accreditation, certification, and certificates for fire investigation training. 3 hours of tested training. CFITrainer.Net. 06/15/2021

“Fundamentals of Interviewing” module presents best practices in preparing for and conducting the informational interview with witnesses in a fire investigation case. 4 hours of tested training.
CFITrainer.Net. 06/14/2021

“Physical Evidence at the Scene” module explores how thinking outside the box of traditional fire scene evidence can be used to associate objects, individuals, or locations, leading to the discovery of

motives, means, opportunity, and responsibility. 4 hours of tested training. CFITrainer.Net.
06/14/2021

“Insurance and the Fire Investigation” module includes information on the role of the insurance file in an investigation and includes examining the insurance file, interviewing insurance personnel, searching insurance databases, and verifying statements made by the insured. 4 hours of tested training.
CFITrainer.Net. 05/28/2021

“Giving Stronger Deposition and Trial Testimony” discusses presenting testimony in court, deposition prep and performance, qualification as an expert, Daubert, and common pitfalls that get experts disqualified. 2 hours of tested training. IAAI Live Virtual Event. Chris Konzelmann. 05/25/2021

“Introduction to Evidence” module introduces the fire investigator to the concept of evidence, the legal aspects involved in the collection and presentation of evidence in a legal proceeding, and how the investigator should prepare to present the evidence collected in court. 4 hours of tested training.
CFITrainer.Net. 5/28/2021

“Ethics and the Fire Investigator” module explores the ethical “gray areas” by posing ethical dilemmas that may face the fire investigator and applying a rubric to guide how to make ethical decisions. 3 hours of tested training. CFITrainer.Net. 05/27/2021

“Critical Evaluation and Testing of Commonly Reported Accidental Causes” module takes a closer look at four of the most commonly reported accidental fire causes including cooking equipment, heating equipment, electrical distribution and lighting, and smoking materials. 3 hours of tested training.
CFITrainer.Net. 05/25/2021

“Documenting the Event” module describes how to perform documentation tasks including scene access, note taking, photography, sketches and diagrams, interviews, and evidence collection. 4 hours of tested training. CFITrainer.Net. 05/25/2021

“Effective Investigation and Testimony” module shows how experts can successfully meet the legal standards for conducting an investigation and presenting testimony in court. 3 hours of tested training. CFITrainer.Net. 05/25/2021

“Charting Your Career Path in Fire Investigation” module looks at the many ways fire investigators enter and grow in the profession through academia, the fire service, law enforcement, insurance, and engineering. 3 hours of tested training. CFITrainer.Net. 05/22/2021

IRIS Fire Investigations

Fire Investigation Master Class was a live event including 24 hours of non-tested instruction over 3 days. Robert Toth & David Icove. 03/11/2024-03/13/2024

National Fireplace Institute / HPBA Education Foundation

10/01/2021 Fire Investigations: How to Not Get Burnt -7022

10/19/2020 - Lessons Learned from Fire Investigation - 5762

Surefire Academy / (CSIA Online Education)

10/18/2019 - We Didn't Start the Fire - 6647

FIRE SCENE SAFETY

Hazard recognition, evaluation, and basic mitigation procedures

SureFire Academy / (CSIA Online Education)

Last updated 4/27/2024

05/20/2024 - All About Ladders
09/29/2021 - Rules of the Roof
09/27/2021 - Ladder Safety
10/27/2020 - All About Ladders
12/30/2019 - Back Safety - 6127 - James Brewer (CSIA Transcript)

International Association of Arson Investigators (IAAI) - LIVE EVENTS

International Association of Arson Investigators (IAAI) - CFITrainer.net

- “**Personal Protective Equipment for Post-Fire Scenes**” is “PPE 101” for all personnel who operate at post-fire scenes. 3 hours of tested training. CFITrainer.Net. 02/08/2024
- “**Electrical Safety**” presents critical electrical safety practices that every fire investigator should implement at every scene, every time. Content covered includes how electricity is supplied to a building, the electrical safety actions to complete during the preliminary scene assessment, ongoing electrical safety measures to be practiced throughout the investigation, what the investigator needs to know about static electricity, and what electrical safety equipment should be in the investigator’s toolkit. 3 hours of tested training. CFITrainer.Net. 11/22/2021
- “**Fire Investigator Scene Safety**” module will provide a closer look at the many aspects of fire and explosion scene safety, including industry regulations; recognizing physical, chemical, biological, and radiological hazards; hazard and risk assessment; and protective equipment. 3 hours of tested training. CFITrainer.Net. 06/14/2021
- “**Improving Fire Investigator Health and Safety**” provides an understanding of the many health and safety hazards present in the post-fire environment to identify the situations where toxic gases, vapors, and particulates exist and the dangers of these substances, along with other hazards, pose. 3 hours of tested training. IAAI Live Virtual Event. Jeff Pauley. CFITrainer.Net. 06/02/2021

National Chimney Sweep Guild

01/23/2020 - Introduction to Roped Roof Access Part 1 - 6376 - Bob Ferarri
01/23/2020 - Introduction to Roped Roof Access Part 2 - 6377 - Bob Ferarri
04/21/2018 - Your Company Safety Plan, 6380

Red Cross

05/12/2021 - Adult CPR AED. American Red Cross (Online)
06/29/2021-06/30/2021 - Wilderness First Aid - 2 days - Fruita Rec Center, Colorado, Red Cross, Amy Smith

BUILDING SYSTEMS

Types of construction, fire protection systems, electricity and electrical systems, fuel gas systems, appliances, chimneys and vents

Chimney Safety Institute of America (CSIA) - LIVE EVENTS

08/18/2021 - Introduction to Chimney Physics, CSIA Homecoming Conference, John Pilger
08/19/2021 - Your Company Fall Protection Program - Jim Brewer - CSIA Homecoming Conference, Indianapolis, Indiana

SureFire Academy / (CSIA Online Education)

02/27/2017 - CSIA Certified Chimney Sweep Online Review (CSIA Transcript)
05/07/2018 - CSIA Certified Dryer Exhaust Technician Online Review (CSIA Transcript)
10/20/2019 - Chimney Fires - 6807 - James Brewer
11/22/2019 - Certified Dryer Exhaust Technician (CDET) Online Review. James Brewer (CSIA Transcript)
12/20/2019 - Hearth Product Identification - 6412 - James Brewer (CSIA Transcript)
12/12/2019 - Dryer Vents - The Time is Now! - 6890 - James Brewer, CSIA eLearning
10/05/2020 - Understanding Masonry Fireplace Clearances - 7053 Mike Segerstrom
10/19/2020 - Typical Issues with Fireplaces and Chimneys - 7236 - James Brewer
11/24/2020 - Certified Dryer Exhaust Technician (CDET) Online Review. James Brewer
02/05/2021 - Diagnosing Masonry Chimney Failure and Providing Sound Findings - 7298
02/05/2021 - IRC Chapter 13 - General Mechanical System Requirements - 7292 James Brewer
03/18/2021 - Water Permeance in Masonry Chimneys - Beyond the Envelope. Chimney Safety Institute of America (CSIA), Stuart Karanovich
03/22/2021 - Level 2 Inspections - 6702 Mike Segerstrom
03/27/2021 - Level 2 Inspections of a Factory-Built Fireplace - 6677 Mike Segerstrom
04/01/2021 - Understanding Chimney Interior Imagery - 7045 CSIA Tom Urban
04/01/2021 - Level 1 Chimney Inspections
05/04/2021 - NFI Core Knowledge
05/07/2021 - Level 2 Chimney Inspections
06/04/2021 - Record Keeping - 7049 (CSIA Transcript)
08/04/2021 - Priorfire Retrofit Fireplace System Training - Thom Meridith / Chris Prior, SureFire
08/09/2021 - Chimney Inspections 411 - 6756 - Tom Urban - SureFire
08/14/2021 - Installation of the PriorFire Retrofit System
08/15/2021 - Finishing and Appearance of the Retrofit Fireplace
01/03/2022 - IRC Chapter 15 Dryer Exhaust Systems
03/02/2022 - IRC Chapter 15 Dryer Exhaust Systems - 7629 - Jim Brewer
08/06/2024 - Certified Dryer Exhaust Technician (CDET) Online Review. James Brewer

Copperfield Academy - LIVE EVENTS

10/15/2017 - Professional Chimney Inspection, 6204 - Bill Ryan & Mike Segerstrom, Copperfield Academy
01/24/2018 - Protect Your Business: Think Like a Fire Investigator, 6335
01/25/2018 - Professional Inspection Reports, 6338 - Bill Ryan, Mike Segerstrom
01/26/2018 - Advance Your Code Knowledge, 6354 (CSIA Transcript)
01/31/2019 - Carbon Monoxide and the Venting Professional - 6698
04/08/2019 - Chimney Relining Workshop - 6549, Mike Segerstrom
07/24/2020 - Forever Fireplace Replacement- 7189
11/05/2020 - Prefab Change Out 101 - 7136 - Dennis Dobbs. Copperfield Academy. Copperfield Chimney Supply. Colorado Springs, CO
05/26/2021 - Sweep & Scan Equipment Training. David Stewart & Mike Mathews. Copperfield Academy. Copperfield Chimney Supply. Golden, CO
06/22/2022 - CAZ-mania: It's All About the Combustion Zone - Bob Harper
08/24/2022-08/25-2022 - Professional Inspection & Report Writing - Bill Ryan, Mike Segerstrom

8/10/2023-08/11/2023 - Professional Inspection & Delivery - Bill Ryan, Mike Segerstrom
5/21/24-5/22/24 - Flashings, Basic Roofing & Crickets - Dan Cells

CVC Coaching (Online)

01/24/2018 - Tools & Tips for Gas Technicians - CVC Coaching, Bob Wise, 6179
03/16/2019 - Understanding Gas Pressure - CVC Coaching, Bob Wise 6743
04/07/2020 - The Top 6 Issues That Challenge Gas Technicians - 7148 - CVC Coaching, Bob Wise
04/15/2020 - Gas Call Backs With Control Systems - 7153 - CVC Coaching, Bob Wise
04/22/2020 - Gas Valve Failures and Diagnostics - 7162 - CVC Coaching, Bob Wise
04/23/2020 - History/Documentary of the Factory Built Fireplace - 6296 - Jerry Isenhour
05/28/2020 - Why Do Clay Flue Liners Crack - 7191 - Jerry Isenhour

F.I.R.E. Associates (Fireplace, Investigation, Research & Education)

FCI-01 F.I.R.E. Certified Inspector Course is a 16 hour tested training course that covers the history of the fireplace inspection industry, professional requirements, liability, forensic evaluation and report writing, understanding fire technology, understanding the operation of the fireplace, recognizing the fireplace, general fireplace requirements, masonry fireplace structure, masonry fireplace and firebox components, masonry chimney components, and masonry flues. Dale Feb. Moorepark, CA,
08/23/2021-08/24/2021

FCI-02 F.I.R.E. Certified Inspector Course is a 16-hour tested training course that covers material on metal factory-built fireplaces, precast fireplaces, cast-in-place fireplaces, prefabricated fireplace forms, masonry fireplace with listed metal chimneys, wood stoves, gas burning appliances, and decorative gas logs, finishing materials, lining systems, and marketing your business., Dale Feb. Moorepark, CA,
08/25/2021-08/26/2021

FCI-03 F.I.R.E. Certified Inspector Course is a 16-hour tested training course that covers code and manufacturer requirements, working with the professional, beginning the investigation, condo inspections, evaluation and repair, reinstallation of components, fuel information, and certification testing. Dale Feb. Moorepark, CA, 08/27/2021-08/28/2021

F.I.R.E. Certified Inspector Recertification Exam. Online regarding specific changes in the International Residential Code. 08/28/2024

Heatshield / SaverSystems

11/13/2017 - Heatshield Factory Training, 5982 - Stuart Karanovich
06/09/2020 - Heatshield Refresher Course - Stuart Karanovich
07/24/2020 - HeatShield Repair of Masonry Chimneys - 7190

International Association of Arson Investigators (IAAI) - LIVE EVENTS

IAAI Phoenix Regional Training

“What's My Fuel and What's My Ignition Source” explored low-energy ignition sources (like low-wattage electric lamps, electronic devices, batteries, smoldering cigarettes, hot surfaces, and hot particles) and first fuels potentially ignited, physical and chemical properties, susceptibility to various ignition sources. Presented visual and tactile observations, aided by

simple field ignition tests, that combined can make it possible to classify a wide variety of common fuels (upholstery, fabrics, dust, and some ignitable liquids) to enable accurate determination of the ignition potential by various heat sources. 4 hours of tested training. IAAI Regional Training. John D. Deehan. Phoenix, AZ. IAAI Phoenix 6/16/2021

“Case Study in Framing and Fraud: How Spoofing and Masking Technologies Were Used to Frame an Innocent Mother and Perpetuate an Arson Fraud” presents a unique arson fire in the Cincinnati area where an unprecedented level of spoofing and masking technologies were used by an insured to frame the mother of one of his children. This presentation touched upon new technologies available to fraudsters, including custom-made, wearable masks from facial recognition technology, the use of SpoofCard and spoofing-type programs to conceal communications and frame others for communications they never participated in, the use of fake Google and Facebook profiles to commit crimes and communicate undetected with co-conspirators – and how to identify and discover these materials in arson investigations. 4 hours of tested training. IAAI Regional Training. Zach McCune. Phoenix, AZ. 06/16/2021

“Electrical Fire Causation” explored electrical fire causation issues resulting from current, resistance, voltage, overcurrent, serial arcing vs parallel arcing, high resistance connections, etc... IAAI Regional Training. Jack Sanderson. Phoenix, AZ. 8 credit hours. 06/15/2021

International Association of Arson Investigators (IAAI) - CFI Trainer.net

“Investigating Natural Gas Systems” refresher module presents the role natural gas can play in fire ignition, fuel load, and spread; the elements of investigating a fire in a residence where natural gas is present; the potential role the gas utility or the municipality can play an investigation; and discusses the documentation of the natural gas system and the types of tests that may be required as part of the fire investigation when natural gas piping or equipment is involved. 3 hours of tested training. CFITrainer.Net. 6/13/2024

“Residential Natural Gas Systems” refresher module presents the basics of natural gas and its uses and system components in a residence, a basic understanding of fuel gases, fuel systems, and the appliances and equipment that utilize them. 3 hours of tested training. CFITrainer.Net. 6/08/2024

“Propane Explosions: Investigation, Failure Modes, Scene Exam, and Litigation Essentials” put on by the National Association of Subrogation Professionals (NASP) in conjunction with the IAAI. 2-hour training. 6/14/2022

“Vacant and Abandoned Buildings: Hazards and Solutions” provides an awareness of the unique characteristics of vacant and abandoned structures, how these characteristics contribute to the ways these structures often burn, the special challenges in investigating these fires, and information on how to determine property ownership, an awareness of the special hazards posed by vacant and abandoned buildings and the challenges of conducting a safe and successful investigation. 4 hours of tested training. CFITrainer.Net 03/26/2022

“Electric & Hybrid Vehicle Design Basics” module explores the basics of how electric and hybrid vehicles are designed, including major systems and typical components. 3 hours of tested training. CFITrainer.Net 03/17/2022

“Investigating Natural Gas Systems” module presents the role natural gas can play in fire ignition, fuel load, and spread; the elements of investigating a fire in a residence where natural gas is present; the potential role the gas utility or the municipality can play an investigation; and discusses the documentation of the natural gas system and the types of tests that may be required as part of the fire investigation when natural gas piping or equipment is involved. 3 hours of tested training. CFITrainer.Net. 6/25/21

- “Introduction to Appliances”** module offers a basic introduction to how some selected major appliances operate. It covers the main components often used in major appliances (gas and electric), how some major appliances use energy to generate heat, and common safety and thermal protection devices. Devices covered include cooktops, ovens, ranges, refrigerators, freezers, clothes dryers, dishwashers, and dehumidifiers. 3 hours of tested training. CFITrainer.Net. 6/24/2021
- “Fundamentals of Residential Building Construction”** module outlines the fundamentals of residential building construction and how building construction affects fire development, the major types of construction used to build single-family and small multi-family residences, an exploration of building components from a fire spread perspective, and how the various construction techniques can affect fire development and impact fire investigator safety. 3 hours tested training. CFITrainer.Net. 6/23/2021
- “Basic Electricity”** module introduces basic electrical concepts, including terminology, atomic theory and electricity, Ohm's Law, Joule's Law, AC, and DC power, and teaches how the relationship between resistance, current, and heat is fundamental to understanding how electricity can be a competent fire ignition source. 4 hours of tested training. CFITrainer.Net 6/17/2021
- “Residential Natural Gas Systems”** module presents the basics of natural gas and its uses and system components in a residence, a basic understanding of fuel gases, fuel systems, and the appliances and equipment that utilize them. 3 hours of tested training. CFITrainer.Net. 06/15/2021
- “Residential Electrical Systems”** module teaches the basics of electrical power generation, distribution, and transmission systems. Then, the module explains how power flows into and throughout a residence. Specific topics include AC and magnetism, the generation and transmission of electrical energy, key elements of the electrical distribution system, residential service components, overcurrent protection, and branch circuits. 4 hours of tested training. CFITrainer.Net. 06/14/2021
- “Investigating Motor Vehicle Fires”** module allows the fire investigator to see vehicles involved in fires before the fire, during the fire, and after the fire and includes discussion on the basic compartments in vehicles, fuel loads typically found in vehicles, and fire patterns that result from fires in the various compartments and how the patterns are impacted by the available fuel in that compartment. 4 hours tested training. CFITrainer.Net. 06/11/2021

International Code Council (ICC)

- 2023 Changes to the NEC Electrical Code** was a live event including 8 hours of instruction covering new changes to the 2023 electrical code. 05/12/2023
- 2021 International Building Code Update** was a live event including 7 hours of instruction. 0.7 ICC CEUs and covered changes in the 2021 IBC. 02/01/2023
- 2021 International Residential Code Update** was a live event including 7 hours of instruction. 0.7 ICC CEUs and covered changes in the 2021 IRC. 01/31/2023
- Firestopping Certificate of Learning Achievement (CLA) - Part 1 - (8)** International Code Council (ICC) - 04/21/2021

National Chimney Sweep Guild

- 03/23/2024 - Carbon Monoxide: How to Avoid Killing Your Customers - Bob Ferrari Ferrari
- 03/23/2024 - Fireblocking: Why It Matters and What To Do About It - Dale Feb
- 03/22/2024 - Looking at Real Losses: Protecting Yourself and Your Business - Dale Feb
- 03/20/2024 - NFPA Code Updates for 2024 (NFPA211, NFPA54) - Jim Brewer
- 03/20/2024 - The Next Frontier: The Future of Chimney Sweep Training - Bob Ferrari
- 04/02/2022 The Trouble with Inserts, CSIA .5-Technical, 1-Codes & Standards, .25-Business, NFI 1.5

Technical, Genevieve Bures, 1.5 hours of training
03/29-04/02/2022 - Ceramic Theory Why Flue Tiles Break, Russ Dimmitt, 1.5 hours of training
03/30/2022 Uncommon Knowledge Regarding Fireplace and Chimney Related Fires and Failures (Part 1 & 2), Dale Feb, 3 hours of training
03/14/2020 - Delivering the Perfect Installation - Grant Falco
03/12/2020 - Chimney Physics - 7017 - Russ Dimmitt
03/12/2020 - Chimney Crowns - 7016
03/16/2019 - Simple Repairs for Masonry Chimneys. 6738. Russ Dimmitt.
03/16/2019 - Catalysts for Gas Appliances: A New Take on a Proven Technology - 6762
04/18/2018 - Advancements in Appliance Venting & Ventilation - 6367

National Fireplace Institute (NFI) / HPBA - LIVE EVENTS

02/14/2024 - HPBA Government Affairs Update for Retailers, Reps, and Distributors; Update on New UL Insert Standards, Expo
02/14/2024 - The Level 2 and Your Installation - Michael Segerstrom, Bill Ryan, Expo
02/14/2024 - Understanding the IRC Energy Code, Expo
02/13/2024 - Draft and Flow - Russ Dimmitt, Expo
02/13/2024 - Is Your Installation TECHnically Correct? - Wood - Michael Segerstrom, Bill Ryan, Expo
02/13/2024 - Is Your Installation TECHnically Correct? - Gas - Michael Segerstrom, Bill Ryan, Expo
08/17/2018 - Gas Certification Review Course - National Fireplace Institute (NFI), Rick Vlahos
08/22/2018 - NFI Wood Review Course, 5325 Larry Grogan, SLC Utah

HPBEF Online Training

11/08/2021 - A-Z on Installing Factory-Built Chimneys - 3008, Will Kolansky
11/10/2021 - Common Installation Errors - 7018 - Mark Jones
11/08/2021 - 2021-2022 Update and Reinforcement Course - 7379, Rick Vlahos
03/22/2021 - Reduce Liability Through Proper Chimney Inspection - 4443 Bill Ryan
03/18/2021 - Limiting Liability Through Inspection & Procedure - Bill Ryan
03/08/2021 - The Chimney is Relevant to the Installation - 5644 Bill Ryan
02/19/2021 - Codes, Standards, and Installation Instructions - 5958 - Bill Ryan
05/04/2020 - Fireplace Inspections What Did I Miss - 3534 Dale Feb

Utah Contractor Education

10/26/2023 - 6-Hour Licensure Renewal Course - Associated General Contractors of Utah (Online)
04/15/2021 - 6-Hour Licensure Renewal Course - Associated General Contractors of Utah (Online)
06/21/2019 - Utah Homebuilder Association - 25-hour pre-licensure course - LIVE EVENT