

Keith Ferraiolo | Fire Investigation, CFEI, CVFI, FIT, ECT

11 Commerce Way Suite A, Totowa, NJ, 07512

732.629.7930

Keith.Ferraiolo@efiglobal.com

Professional Summary:

Mr. Ferraiolo has been a career firefighter since 2002. In addition to suppression, he has been assigned to the fire prevention bureau conducting fire inspections and investigations. He is also part of the Urban Area Security Initiative as part of the Decon Task Force and Neptune Task Force.

Mr. Ferraiolo is a member of the Union County Fire Investigation Task Force, where he currently serves as a team leader. He was responsible for integrating the ATF's Bomb and Arson Tracking System, and also serves as the unit's liaison to the ATF. He has participated in or supervised over 160 fire investigations in accordance with NFPA 921 and 1033. He also has over 650 hours of classroom training. His investigations have included:

- Joint investigations with local, county, state, and federal partners.
- Multi-million-dollar Losses.
- Residential and commercial structure fires.
- 30 personal and commercial vehicles fires.
- Heavy machinery fires.
- Fatal fires.
- Serial Arsonists.
- Line-of-Duty Death.

Licenses and Certifications:

NJ Certified Fire Investigator, NJ Division of Fire Safety, NJ, License # 149097

Fire Prevention Inspector, NJ Division of Fire Safety, NJ, License # 149097

Fire Prevention Official, NJ, Division of Fire Safety, NJ, License # 149097

Certified Fire and Explosion Investigator, NAFI, License # 21054-13201

Certified Vehicle Fire Investigator, HAFI, License #21054-13201v

Fire Investigation Technician, IAAI

Evidence Collection Technician, IAAI

Project Experience:

Union County Fire Investigation Unit, Linden, NJ in January of 2019.
Multi-million-dollar loss involving the Linden Department of Public Works building

Union County Fire Investigation Unit, Summit, NJ in January of 2018
Multi-million-dollar loss involving five story apartment building.

Mr. Ferraiolo has been involved in numerous large losses conducted in conjunction with local, county, state, and federal partners between 2014-2019.

Professional Experience:

EFI Global, Fire Investigator, 2019 – Present
Union County Fire Investigation Unit, Investigator/ Team Leader, 2014- – Present
Rahway Fire Department, Firefighter/ Fire Inspector, 2002 – Present

Specialized Education:

Appliance Fire Investigations, ATF, 2019
Arsonist Profile, NJ IAAI, March 2019
Fire Investigator Safety, NJ IAAI, March 2019
Case Preparation, NJ IAAI, March 2019
Fire Dynamics, NJ IAAI, November 2019
Prevention & Response to Suicide Bombing Incidents, Energetic Materials Research Center, 2018
Understanding Ventilation, NJ IAAI, 2018
Persistence of Ignitable Liquids, NJ IAAI, March 2018
Electrical Aspects of Fire Investigations, NJ IAAI, March 2018
Investigator Safety, NJ IAAI, October 2018
Incident Response to Terrorist Bombings, Energetic Materials Research Center, 2017
Medical Preparedness Response to Bombing Incidents, Energetic Materials Research Center, 2017
Hands-On Vehicle Fire/Arson Investigations, Public Agency Training Center, 2017
Homemade Explosives Awareness, Energetic Materials Research Center, 2016
Quality Depositions / O & C, NJ IAAI, October 2016
Basic Arson Investigators Course, NJ Division of Criminal Justice, April 2015
Post Pattern Genesis and Persistence, ATF, 2015
Arson Awareness for Line Personnel, Kean University, 2009

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

Commonly Reported Causes, June 2019
Deposition Part 1, June 2019
Principals of Fire Investigation, June 2019
Understanding the Fire Investigators Job, July 2019
Deposition Part 2, July 2019
Potential Value / Electronic Evidence, July 2019
Insurance Professional, July 2019

Wildland Fires, July 2019
Fire Investigation for Fire Officers, November 2019
Principals of Fire Investigation, November 2019
Vacant and Abandoned Buildings Hazards and Solutions, March 2019
Fire Investigation for Fire Officers, April 2019
Fire Flow Analysis, May 2019
Preparation for Marine Fire Scene, May 2019
Search and Seizure, June 2019
Hazwoper Standard, June 2019
Practical Application of the Relationship Between NFPA 1033 and 921, August 2019
Fire Chemistry, January 2018
Discovery in Criminal Cases, January 2018
Discovery in Civil Cases, January 2018
Evidence Examination: What Happens at the Lab, March 2018
Magne Tek: Case Study in the Daubert Challenge, May 2018
NFPA 921 & 1033 2014 Edition, November 2018
Natural Gas Systems, November 2018
Fire Protection Systems, January 2017
Investigating Natural Gas Systems, February 2017
Scientific Method Fire and Explosion Investigation, February 2017
Managing Complex Fire Scenes, February 2017
Physical Evidence at the Fire Scene, February 2017
Using Resources to Validate Your Hypothesis, February 2017
Motor Vehicle Fires: Engine, Ignition, Electrical, Fuel, June 2017
Motor Vehicle Fires: Trans, Exhaust, Brake, June 2017
Thermometry, Heat, Heat Transfer, January 2017
Fire Dynamics Calculator, October 2017
Post Flashover Fires, January 2016
Effective Investigation and Testimony, January 2016
DNA, January 2016
Fundamentals of Interviewing, January 2016
Investigation Fire and Explosion Incidents Involving Line-of-Duty Death, February 2016
Process of Elimination, August 2016
Legal Aspects of Investigating Youth-Set Fires, August 2016
Introduction to Fire Dynamics and modeling, December 2016
Insurance and the Fire Investigator, December 2016
Motive, Means and Opportunity: Determining Responsibility in an Arson Case, December 2016
Ethics and the Fire Investigator, July 2015
Ethical Duties Beyond the Fire Scene, July 2016
Documenting the Event, July 2015
Introduction to Evidence, July 2015
Basic Electricity, October 2015
Charleston Sofa Super Store Fire, July 2015
Arc Mapping, October 2015
Residential Electrical Systems, October 2015
Basic Electricity, October 2015
Analysis of Station Nightclub Fire, October 2015
Impact of Ventilation in Building Systems, 2015
Critical Thinking Solves Cases, October 2015
Writing Initial O&C, October 2015
Explosion Dynamics, November 2015

Understanding Fire/ Candle Experiment, November 2015
Impact of Ventilation in Building Structures on Fire Development, October 2015
Fire Investigator Scene Safety, November 2015
Investigating Motor Vehicle Fires, November 2015
How First Responders Impact the Fire Investigation, December 2015
Understanding Undetermined, June 2015

Affiliations:

International Association of Arson Investigators (IAAI)
National Association of Fire Investigators (NAFI)
New Jersey Firemen Mutual Benevolent Association

Honors and Awards:

Unit Citation, Rahway Fire Department, 2014, 2016, 2017
Mayors Award, Woodbridge Township, 2017
EMS Medal of Valor, Woodbridge Township NJ, Dec 2016
Group Effort Valor Award, NJ FMBA, 2016
Special Recognition Valor Award (2), NJFMBA, 2016
Chiefs Award, Avenel EMS, Dec 2015
American Legion Medal of Valor, American Legion, 2008