

Emmet McCarthy | Certified Fire and Explosion Investigator, NAFI-CFEI

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Professional Summary:

Mr. McCarthy has 30 years of combined experience in fire service and management where he has proven successes in overseeing and directing work of thirty subordinates. Mr. McCarthy has been trained at evaluating fires, recognizing danger and taking the necessary actions for the protection of property and lives. Mr. McCarthy has investigated over 250 fires for origin and cause. Mr. McCarthy has used the Scientific Methodical Methodologies set forth by NFPA 921, facts and collected data to investigate these fires.

Areas of Expertise:

- Residential and Commercial Fire Investigation
- Vehicle Fire Investigation
- Evidence Management
- Scene Management
- Video Recording
- Scene Photography

Licenses and Certifications:

NAFI - CFEI #27344-15584
Fire Officer 1
Fire Instructor 1
Incident Safety Officer 1
Bosch CDR Tool Technician
Certified Forklift Operator, #45029645

Professional Experience:

City of Milwaukee Fire Department, Fire Investigator, January 2020 to January 2023
City of Milwaukee Fire Department, Fire Lieutenant, November 2020 to January 2023
City of Milwaukee Fire Department, Fire Fighter, October 2011 to November 2020
City of West Allis Fire Department, Fire Inspector, January 2008 to October 2011
City of West Allis Fire Department, Paramedic, December 1998 to January 2008
City of West Allis Fire Department, Fire Fighter, July 1993 to December 1998
Gateway Technical College, Kenosha, Fire Instructor June 1989 to January 2023

Specialized Education:

Fire Investigator Scene Safety (IAAI) 2023
Accreditation, Certification and Certificates (IAAI) 2022
Alternative Fuel Vehicles (IAAI) 2022
An Analysis of the Station Night Club Fire (IAAI) 2022
Arc Mapping Basics (IAAI) 2022
Basic Electricity (IAAI) 2022
Charleston Sofa Super Store Fire (IAAI) 2022
Critical Thinking Solves Cases (IAAI) 2022
Digital Photography and the Fire Investigator (IAAI) 2022
Discovery in Civil Cases (IAAI) 2022
Discovery in Criminal Cases (IAAI) 2022
DNA (IAAI) 2022
Electric and Hybrid Design Basics (IAAI) 2022
Electric and Hybrid Vehicle Fires (IAAI) 2022
Electrical Safety (IAAI) 2022
Emerging Technologies in Fire Investigation (IAAI) 2022
Ethical Duties Beyond the Fire Scene (IAAI) 2022
Ethics & social media (IAAI) 2022
Evidence Examination: What happens at the Lab (IAAI) 2022
Fire Protection Systems (IAAI) 2022
Introduction to Fire Dynamics and Modeling (IAAI) 2022
Investigating Fatal Fires (IAAI) 2022
Investigating Fire and Explosion Incidents Involving Line of Duty Death (IAAI) 2022
Investigating Natural Gas Systems (IAAI) 2022
Lithium-Ion Battery Fires (IAAI) 2022
Magne Tex: A Case Study in the Daubert Challenge (IAAI) 2022
Managing Complex Fire Scene Investigations (IAAI) 2022
Motive Means and Opportunity Determining Responsibility in an Arson Case (IAAI) 2022
NEFPA 1033 & 921 Editions and Important Updates (IAAI) 2022
Post flashover Fires (IAAI) 2022
Preparing for the Marine Fire Scene (IAAI) 2022
Preventing Occupational Exposures to Carcinogens at the Fire Scene (IAAI) 2022
Process of Elimination (IAAI) 2022
Search and Seizure (IAAI) 2022
Site Safety Assessment (IAAI) 2022
The Deposition Part 1: Format, Content and Preparation (IAAI) 2022
The Deposition Part 2: Questioning Tactics and Effective Responses (IAAI) 2022
The HAZWOPER Standard (IAAI) 2022
The Impact of Ventilation in the Building Structures on Fire Development (IAAI) 2022
The Potential Value of Electronic Evidence in Fire Investigations (IAAI) 2022
Thermometry, Heat and Heat Transfer (IAAI) 2022
Understanding Fire Through the Candle Experiments Refresher (IAAI) 2022
Understanding the Fire Investigators Job: A Guide for Non-Investigators (IAAI) 2022
Using Resources to Validate your Hypothesis (IAAI) 2022
Vacant and Abandoned Buildings: Hazards and Solutions (IAAI) 2022
What the Insurance Professional Needs to Know About Fire Investigation (IAAI) 2022
Wildland Fire Investigation (IAAI) 2022
Charting your Career Path in Fire Investigation (IAAI) 2021

Critical Evaluation and Testing of Commonly Reported Accidental Causes (IAAI) 2021
Documenting the Event (IAAI) 2021
Effective Investigation and Testimony (IAAI) 2021
Fire Flow Analysis (IAIA) 2021
Fire Investigation for the Fire Officers Multi-Program (IAAI) 2021
Fundamentals of Interviewing (IAAI) 2021
How First Responders Impact the Fire Investigation (IAAI) 2021
Introduction to Evidence (IAAI) 2021
Legal Aspects of Investigating Youth-Set Fires (IAAI) 2021
Investigating Motor Vehicles Fires (IAAI) 2021
Motor Vehicles The Engine and the Ignition Electrical and Fuel Systems, (IAAI) 2021
Motor Vehicles Transmissions, Exhaust, Brake and Accessory Systems (IAAI) 2021
NFPA 1033 and Your Career (IAAI) 2021
Physical Evidence at the Fire Scene (IAAI) 2021
Residential Electrical Systems (IAAI) 2021
Residential Natural Gas Systems (IAAI) 2021
The Practical Application of the Relationship Between NFPA 1033 & NFPA 921 (IAAI) 2021
The Scientific Method for Fire and Explosion Investigation (IAAI) 2021
Understanding Fire Through the Candle Experiments (IAAI) 2021
Understanding Undetermined (IAAI) 2021
Writing the Initial Origin and Cause Report (IAAI) 2021
Fire Investigation for Fire Officers (IAAI)
• Concentration in: Motor Vehicle Fires (12/20/2021)
• Concentration in: Youth-Set Fires (12/19/2021)
Principles of Fire Investigation (IAAI) 2021

Affiliations:

International Association of Arson Investigators (IAAI)
National Association of Arson Investigators (NAFI)
International Association of Firefighters (IAFF)

Courses Instructed/ Guest Lecturer:

Fire Fighter 1
Fire Fighter 2
Fire Fighter 3
EMT Basic
Rapid Intervention/Fire Fighter Survival

Honors and Awards:

Medal of Valor- Milwaukee Fire Department- October 2016
Medal of Valor- Milwaukee Fire Department- October 2013