

Douglas P. Armey
Fire & Explosion Investigations, Inc
PO Box 147, Monmouth, Maine 04259
Mobile 207-931-8240
Douglas.Armey@FEInvestigations.com

PROFESSIONAL EXPERIENCE

Fire & Explosion Investigations, Inc	10/20-Present
• Senior Fire Investigator	
Worcester Fire Department	
• Fire Investigator Lieutenant, Fire Prevention Division	2013-2020
• Fire Lieutenant, Fire Suppression Division	2002-2013
• Firefighter, Fire Suppression Division	1997-2002
Department of Correction, Commonwealth of Massachusetts	1988-1997
• Sergeant, MCI-Norfolk	
• Patrol K9 Handler, MCI-Framingham	
• Officer, MCI-Framingham	
Worcester Police Department	06/92-10/92
• Officer, Services Division	
344th Military Police Company, USAR	1985-1999
• Staff Sergeant, Military Police	
Real Estate Appraiser	1998-Present
• MA Licensed Real Estate Appraiser	
Worcester Fire Department Credit Union Board of Directors	2007-2016
• Vice President	2013-2016

CERTIFICATIONS

• Private Investigator, State of Vermont (046.0135079)	02/2021
• International Association of Arson Investigators, Certified Fire Investigator, Certificate of Credential (ProBoard) (CFI)	01/2021
• Private Investigator, State of New Hampshire (74196)	10/2020
• Private Investigator, Commonwealth of Massachusetts (LP0219G)	10/2020
• National Association of Fire Investigators, Certified Fire and Explosion Investigator (CFEI)	10/2020

- Massachusetts Fire Training Council, Massachusetts Certified Fire Investigator (ProBoard) (CFI) 12/2015
- International Association of Arson Investigators, Evidence Collection Technician, Certificate of Credential (ECT) 10/2015
- Maine State Police Certified Canine Accelerant Detection Team, Maine State Criminal Justice Academy 08/2015
- International Association of Arson Investigators, Fire Investigation Technician, Certificate of Credential (FIT) 06/2014
- Department of Fire Services, Certificate of Credential, Fire Prevention Officer, Level One (FPO1) 11/2013
- Massachusetts Department of Correction, Certified K9 Patrol Team Handler, 16 week certification course 06/1990

PROFESSIONAL ASSOCIATIONS

- RI-IAAI, Rhode Island Chapter (2021-present)
- National Association of Fire Investigators (2014-present)
- Reid Institute (2015)
- National Fire Protection Association (2015)
- IAAI, International Association of Arson Investigators (2014-present)
- MA-IAAI, Massachusetts Chapter (2014-present)
- Fire Prevention Association of Massachusetts, FPAM (2013-2020)
- International Association of Fire Fighters, IAFF (1998-2020)
- Professional Fire Fighters of Massachusetts, PFFM (1998-2020)
- Metro Fire Arson Investigators Association (2016)

COURT TESTIMONY

- United States District Court, District of New Hampshire, Civil Action No. 1:23-CV-00451, 4/16/2024, Deposition, *Acadia Ins V. Brothers Design Build, LLC*
- Qualified as Expert Witness, *Commonwealth V. Christopher Ford* Worcester Superior Court, 09/16/2020, Indictment 2019-026
- Worcester County Grand Jury, 01/22/2019, *Commonwealth V. Christopher Ford*
- Worcester County Grand Jury, 02/14/2017, *Commonwealth V. Wilfredo Crespo*

CERTIFICATE

- Worcester County District Attorney for contributions to the investigation and prosecution of an arson fire that resulted in the death of Firefighter Christopher Roy. Sept 2022

PROFESSIONAL DEVELOPMENT

- MA-IAAI, *Fire Dynamics of Pyrolysis*, (6 hour Tested) Mar 2026
- MA-IAAI, *Gen AI Assisted Investigations*, (6 hour Tested) Jan 2026
- ME-IAAI, *Fuel Heating Systems*: (8 hour Tested) Dec 2025

- MA-IAAI, *Roles and Responsibilities at a Fire Scene*, (6 hour Tested) Jun 2025
- VT-IAAI, *Investigating Electrical Appliances Fires, HVAC Fires and Failures, Waste Oil Heater Fires and Serial Arsonist Case Study* (8 hour Tested) Jun 2025
- ME-IAAI, *Scene Documentation: Forensic Photography & Drone Usage* Apr 2025
- VT-IAAI, *P.E.A.S.E. Model of Interview and Investigative Techniques* (8 hour Tested) Feb 2025
- IAAI-CFI, *Examination of Smart Plugs*, (2 hour Tested) Dec 2024
- MA-IAAI, *Heating Systems and Scene Documentation*, (6 hour Tested) Nov 2024
- RI-IAAI, *Residential Dryer Fires*, (7 hour Tested) Oct 2024
- MA-IAAI, *Comprehensive Fire and Arson Seminar*, (6 hour Tested) Mar 2024
- VT-IAAI, *Natural Gas Appliances & Solid fuel burning*, (6.5 hours Tested) Feb 2024
- MA-IAAI, *Resources Considerations for the Fire Investigator*, (6 hour Tested) Jan 2024
- ME-IAAI, *Strategic Suspect Interview Techniques*, ATF-Balos, 7 hour Aug 2023
- MA-IAAI, *NFPA 1321 Standards and Case Study*, (6 hour Tested) Mar 2023
- ME-IAAI, *Electrical Appliance Fire Investigations*, (8 hour Tested) Dec 2022
- IAAI-CFI, *Insurance and Law Enforcement* (Tested) Sep 2022
- ME-IAAI, *Legal Issues in Prosecution for Fire Investigators*, (8 hour Tested) Apr 2022
- IAAI-CFI, *Vetting the Expert*, 2 hour Tested) Mar 2022
- MA-IAAI, *Hoarding situations; natural gas incidents* (6 hour Tested) Mar 2022
- RI-IAAI, *Heating System Failures*, (9 hour Tested) Feb 2022
- MA-IAAI, *Death Investigations*, (6 hour Tested) Jan 2022
- RI-IAAI, *Fire Scene Photography*, (14 hour Tested) Jan 2022
- IAAI-CFI, *Webinar-Report Writing for Fire Investigators* (Tested) Nov 2021
- MA-IAAI, *A Comprehensive Perspective for New and Seasoned Fire Investigators* (20 hour Tested) Oct 2021
- IAAI-CFI, *Webinar-Working Relationship between O&C and EE* (Tested) Sep 2021
- RI-IAAI, *Fire Alarm/Sprinkler and Appliance Forensics* (16 hour Tested) Sep 2021
- IAAI-CFI, *Lithium-Ion Battery Fires* (Tested) Sep 2021
- MA-IAAI, *Wood Burning Fireplace Fire Investigation* (Tested) Jun 2021
- MA-IAAI, *Digital Evidence, Cloud Services Data Collection* (Tested) Jan 2020
- MA-IAAI, *Worcester Cold Storage Case Study-20 Years Later* (Tested) Nov 2019
- NoFires, *Using Technology in Arson Investigation* (16 hour Tested) Nov 2019
- SFPE, *Development of Fire Protection for Energy Storage Systems* Nov 2019
- WFD-Training Division, *Annual Hazmat Refresher* Oct 2019
- MA-IAAI, *Subrogation* (Tested) Sept 2019
- IAAI-CFI, *Critical Evaluation and Testing of Commonly Reported Accidental Causes* (Tested) June 2019
- New Mexico Tech, *Understanding & Planning for School Bomb Incidents*, 4 hours (Tested) May 2019
- Massachusetts Firefighting Academy, *Post Blast Investigations*, 34 hour Seminar (Tested) May 2019

- Center of Non-Verbal Communication, *Nonverbal Cues and Effective Interviewing Course* Apr 2019
- FPAM, *Ticketing, Hoods, Marijuana Facilities* Mar 2019
- SFPE New England, *Mass Timber Construction: Products, Performance and Design* Mar 2019
- MA-IAAI, *Interview and Interrogation for the Fire Investigator* (Tested) Mar 2019
- MA-IAAI, *Arc Mapping* (Tested) Jan 2019
- MA-IAAI, *Portable Appliance Fire Investigation* (Tested) Jan 2019
- NoFires, *Understanding Serial Murder & Arson, 14 hour seminar* (Tested) Nov 2018
- AFAA New England, *Why and When Do We Need CI Cable* Aug 2018
- MA-IAAI, *Motor Vehicle Fire Investigations, 20 hour seminar* (Tested) Jun 2018
- Massachusetts Firefighting Academy, *Hot Works 2018 regulations* May 2018
- Training Force USA, *Interviews and Interrogations* Apr 2018
- Automatic Fire Alarm Association of New England, *2018 Review of 527 CMR with MA Amendments* Apr 2018
- Massachusetts Firefighting Academy, *Homemade Explosive and Post Blast Training* Mar 2018
- MA-IAAI, *Responding to a Natural Gas Fire Investigation and Evidence Collection* (Tested) Mar 2018
- IAAI-CFI, *The Deposition Part 2: Questioning Tactics and Effective Responses* (Tested) Dec 2017
- IAAI-CFI, *The Deposition Part 1: Format, Content and Preparation* (Tested) Dec 2017
- IAAI-CFI, *The HAZWOPER Standard* (Tested) Dec 2017
- IAAI-CFI, *The Potential Value of Electronic Evidence in Fire Investigation* (Tested) Dec 2017
- MA-IAAI, *A Systematic Approach to the Investigation and the Analysis of Post-Compartment Flashover Fire* (Tested) Nov 2017
- AFAA-NE, *Fire Alarm Wiring and Installation* Nov 2017
- National Fire Academy, *Electrical Aspects of Fire Investigations; Emmitsburg, MD. 6 Day on campus course* (Tested) May 2017
- WFD, *Annual Hazmat Refresher* Apr 2017
- IAAI-CFI, *Introduction to Youth-Set Fires* (Tested) Apr 2017
- IAAI-CFI, *Motor Vehicles: Engine, Ignition and Fuel Systems* (Tested) Apr 2017
- FPAM, *Annual Seminar* Apr 2017
- IAAI-CFI, *Thermometry, Heat, and Heat Transfer* (Tested) Mar 2017
- IAAI-CFI, *Insurance and the Fire Investigation* (Tested) Mar 2017
- IAAI-CFI, *Ethical Duties Beyond the Fire Scene* (Tested) Mar 2017
- MA-IAAI, *NFPA 921: 2017 Updates and Fire Investigation Case Studies* (Tested) Mar 2017
- MA-IAAI, *Turning a Great Investigation into a Great Report! How to Satisfy Technical Requirements for an Expert Report* (Tested) Jan 2017
- IAAI-CFI, *An Analysis of The Station Nightclub Fire* (Tested) Dec 2016

• Sirchie, <i>Digital Forensics: Understanding & Use Call Detail Records</i>	Dec 2016
• FBI-Boston JTTF, <i>Terrorism Awareness and Incident Response</i>	Nov 2016
• MA-IAAI, <i>Lithium –Ion Batteries</i> (Tested)	Nov 2016
• Auburn PD, <i>HME and Secondary Devices and Response to Terrorist</i>	Nov 2016
• Sirchie, <i>Fire and Arson Investigation Basics</i>	Nov 2016
• FPAM, <i>Review of Oil Burners, Elevator Code-NFPA 31, ASME</i>	Oct 2016
• MA-IAAI, <i>Current Trends in Fire Investigation Resulting from Civil Unrest</i> (Tested)	Sept 2016
• Sirchie, <i>Using Oblique Lighting for Better Investigation & Photography</i>	June 2016
• Massachusetts Firefighting Academy, <i>Basic Plans Review</i>	June 2016
• IAAI-CFI, <i>Legal Aspects of Investigating Youth-Set Fires</i> (Tested)	June 2016
• IFSTA, <i>Transitional Fire Attack and Flow Paths</i>	June 2016
• IAAI-CFI, <i>How First Responders Impact the Fire Investigation</i> (Tested)	May 2016
• FPAM, <i>Annual seminar</i>	April 2016
• MA-IAAI, <i>Haz-Mat Emerging Trends for Fire Investigators</i> (Tested)	March 2016
• Sirchie, <i>Arson and Crime Scene Photography Basics</i>	March 2016
• Municipal Police Institute, <i>Basic Digital Photography for Law Enforcement, 3 day course, Acton Police Department</i>	March 2016
• National Fire Academy, <i>Interview/Interrogation Techniques and Courtroom Testimony; Emmitsburg, MD; 10 day on campus course</i> (Tested)	February 2016
• IAAI-CFI, <i>Accreditation, Certification and Certificates</i> (Tested)	February 2016
• IAAI-CFI, <i>Investigating Fire and Explosion Incidents Involving a Line of Duty Death</i> (Tested)	February 2016
• IFSTA, <i>Photovoltaics for the Fire Service</i>	January 2016
• Worcester Fire Department, <i>Annual Haz-Mat Refresher Program</i>	January 2016
• MA-IAAI, <i>Fire Investigation Systems, Methodology and Technology, (Tested)</i>	January 2016
• IAAI-CFI, <i>Ethics and Social Media, (Tested)</i>	December 2015
• MA-IAAI, <i>Fire Science for the Fire Investigator/1033</i> (Tested)	November 2015
• IAFI, <i>Recognizing Errors & Crafting Solutions in F. I.</i> (Tested)	November 2015
• Auburn Police Department, <i>Home Made Explosives, Secondary Devices</i>	November 2015
• FPAM, <i>Recognition of Drug Labs & Butane Hash Oil production</i>	November 2015
• IFSTA, <i>Chemical (Detergent)Suicide Awareness on-line course</i>	October 2015
• NoFires, <i>Northwestern DA Fire and Explosion Investigation and Prosecution Conference 16 hour seminar</i> (Tested)	October 2015
• IAAI-CFI, <i>Investigating Natural Gas Systems, (Tested)</i>	October 2015
• IAAI-CFI, <i>Electrical Safety, (Tested)</i>	October 2015
• Maine Accelerant Detection Canine School; <i>Alfred, ME; 200 hour On site course</i> (Tested)	August 2015
• Worcester Fire Department, <i>IED and HME</i>	July 2015
• National Fire Academy, <i>Forensic Evidence Collection; Emmitsburg, MD; 6 day on campus course</i> (Tested)	June 2015
• MA-IAAI, <i>Marine Fire Investigations, 20 hour seminar</i> (Tested)	June 2015
• Sirchie, <i>Basics of Surveillance Operations</i>	May 2015

• Reid, <i>Advanced Course on Interviewing and Interrogation</i>	May 2015
• Reid, <i>The Reid Technique of Interviewing and Interrogation</i>	May 2015
• Sirchie, <i>Alternate Light Source Basics for the Crime Scene</i>	May 2015
• FPAM, <i>Annual Two Day Association Seminar</i>	April 2015
• MA-IAAI, <i>Fire Investigation in the Digital Age</i> (Tested)	March 2015
• Sirchie, <i>Basics of Casting Evidence</i>	March 2015
• FPAM, <i>Smoke and CO Detectors for 1 and 3 family dwellings</i>	February 2015
• Massachusetts Firefighting Academy, <i>Juvenile Fire Intervention</i>	January 2015
• IAAI-CFI, <i>Arc Mapping Basics</i> , (Tested)	December 2014
• Sirchie, <i>Basics of Latent Fingerprint Lifting</i>	December 2014
• IAAI-CFI, <i>Evidence Examination: What Happens at the Lab?</i> , (Tested)	December 2014
• IAAI-CFI, <i>DNA</i> , (Tested)	December 2014
• MA-IAAI, <i>Industrial Fires & Explosions</i> (Tested)	November 2014
• Massachusetts Firefighting Academy, <i>Advanced Fire Investigation Program</i> ; 48 hour (Tested)	October 2014
• Massachusetts Firefighting Academy, <i>New Fire Code Orientation</i> , (16 hour)	October 2014
• IAAI-CFI, <i>Basic Electricity</i> (Tested)	October 2014
• IAAI-CFI, <i>Motive, Means, and Opportunity: Determining Responsibility in an Arson Case</i> , (Tested)	October 2014
• IAAI-CFI, <i>A Ventilation-Focused Approach to the Impact of Building Structures and Systems on Fire Development</i> , (Tested)	October 2014
• Massachusetts Firefighting Academy, <i>Basic Fire Investigation Program</i> ; 48 hour (Tested)	September 2014
• IAAI-CFI, <i>Critical Thinking Solves Cases</i> , (Tested)	September 2014
• IAAI-CFI, <i>Digital Photography and the Fire Investigator</i> , (Tested)	September 2014
• IAAI-CFI, <i>Effective Investigation and Testimony</i> , (Tested)	September 2014
• IAAI-CFI, <i>Fundamentals of Interviewing</i> , (Tested)	September 2014
• IAAI-CFI, <i>Magne Tek: A Case Study in the Daubert Challenge</i> , (Tested)	September 2014
• IAAI-CFI, <i>Process of Elimination</i> , (Tested)	September 2014
• IAAI-CFI, <i>Using Resources to Validate your Hypothesis</i> , (Tested)	September 2014
• IAAI-CFI, <i>Writing the Initial Origin and Cause Report</i> , (Tested)	September 2014
• IAAI-CFI, <i>Fire Investigator Scene Safety</i> (Tested)	August 2014
• IAAI-CFI, <i>Explosion Dynamics</i> , (Tested)	August 2014
• IAAI-CFI, <i>Managing Complex Fire Scene Investigations</i> , (Tested)	August 2014
• IAAI-CFI, <i>Ethics and the Fire Investigator</i> , (Tested)	June 2014
• IAAI-CFI, <i>The Practical Application of the Relationship Between NFPA 1033 and NFPA 921</i> , (Tested)	June 2014
• Massachusetts Firefighting Academy, <i>Bomb/IED Awareness and Central Mass Response Capabilities Symposium</i>	June 2014
• FPAM, <i>Quarterly Training-Fireworks</i>	June 2014
• National Fire Academy, <i>Fire Arson Origin and Cause Investigation; Emmitsburg, MD; 10 day on campus course</i> (Tested)	May 2014
• Massachusetts Firefighting Academy, <i>Public Safety Response</i>	

<i>to Bombing Incidents</i>	February 2014
• Massachusetts Firefighting Academy, <i>Online Blasting Detail Orientation</i>	February 2014
• IAAI-CFI, <i>Investigating Fatal Fires</i> , (Tested)	December 2013
• IAAI-CFI, <i>Investigation Motor Vehicle Fires</i> , (Tested)	December 2013
• Massachusetts Firefighting Academy, <i>Correctly Recognizing and Safely Handling Evidence (C.R.A.S.H.)</i>	December 2013
• IAAI-CFI, <i>Introduction to Fire Dynamics and Modeling</i> , (Tested)	November 2013
• IAAI-CFI, <i>Introduction to Evidence</i> , (Tested)	November 2013
• IAAI-CFI, <i>Fundamentals of Residential Building Construction</i> , (Tested)	November 2013
• IAAI-CFI, <i>Documenting the Event</i> , (Tested)	November 2013
• IAAI-CFI, <i>Physical Evidence at the Fire Scene</i> , (Tested)	November 2013
• Massachusetts Firefighting Academy, <i>Fire Prevention Officer-Level 1</i> (Tested)	November 2013
• IAAI-CFI, <i>NPFA 1033 and Your Career</i> , (Tested)	October 2013
• IAAI-CFI, <i>The Scientific Method for Fire and Explosion Investigation</i> , (Tested)	October 2013
• IAAI-CFI, <i>Fire Protection Systems</i> , (Tested)	October 2013
• Worcester Fire Department, Annual Haz-Mat Refresher Program	September 2013
• Worcester Fire Department, <i>Instruction in ICS 100, 200, 700, 800 Incident Command Systems</i> (Tested)	1997-2013
• Massachusetts Department of Fire Services, <i>Fire Prevention Officer-Basic</i> , (Tested)	October 2013
• Worcester Fire Department, Annual Haz-Mat Refresher Program	December 2012
• Massachusetts Firefighting Academy, <i>Hazmat, Operations Level</i>	September 2012
• Worcester Fire Department, Annual Haz-Mat Refresher Program	April 2011
• Worcester Fire Department, Annual Haz-Mat Refresher Program	March 2010
• Worcester Fire Department, Annual Haz-Mat Refresher Program	February 2009
• Worcester Fire Department, Annual Haz-Mat Refresher Program	January 2008
• Worcester Fire Department, Annual Haz-Mat Refresher Program	February 2007
• Quinsigamond Community College, <i>Emergency Medical Technician-Basic</i> , (Tested)	September 1999
• City Of Worcester Fire Department, <i>Basic Fire Fighter Training, 13 week academy</i> , (Tested)	September 1997
• Massachusetts Executive Office of Public Safety, <i>Criminal History Systems Board LEAPS User Certificate Program</i> , (Tested)	August 1992
• Massachusetts Criminal Justice Training Council, <i>Basic Criminal Law Examination</i> , (Tested)	August 1992
• City of Worcester, Worcester Police Academy, <i>98 Hour Basic Reserve/Intermittent Training for Police Officers</i> , (Tested)	July 1992
• Massachusetts Department of Correction, <i>Basic K9 Patrol Team Handler Training, 16 week syllabus</i> , (Tested)	July 1990
• Massachusetts Department of Correction, <i>Tactical Response Team</i>	November 1989
• Massachusetts Department of Correction, <i>firearms permit 0761, Annual qualification and training</i> , (Qualification course)	1998-1997

- Massachusetts Department of Correction, *Correction Officer Academy, 8 week academy*, (Tested)
- United States Army, *Basic Military Police School 16 week*, (Tested)

November 1988

March 1986