

Curriculum Vitae

James Powderly, IAAI-CFI®

Mr. Powderly has been a fire investigator since 2009. He has performed or assisted in the origin and cause investigation of over 100 structure fires, 62 vegetation fires, and 16 vehicle fires. In carrying out these duties Mr. Powderly conducted interviews of witnesses and suspects, collected evidence, photographed the fire scene and artifacts, and developed site diagrams for use in fire investigation reports.

Mr. Powderly is a certified fire investigator (CFI) through the International Association of Arson Investigators (IAAI) and a graduate of the IAAI three day Motor Vehicle Fire investigation course. He is a graduate of the National Fire Academy, Fire/Arson Origin and Cause Investigations course, and Youth Firesetting Prevention & Intervention: Level I & II courses. Additionally, Mr. Powderly is trained and certified in Juvenile Interviews and Interrogations through the International Association of Chiefs of Police.

Professional Experience

Fire and Explosion Investigator, Fire Cause Analysis 09/2022 to Present

Fire Inspector / Fire Investigator, Chino Valley Fire District, Chino Hills, CA
04/2005 to 09/2022

- Fire origin and cause investigator for the Chino Valley Fire District since 2009.
 - Conducted interviews of witnesses and possible suspects.
 - Collected evidence, photographed and developed diagrams of fire scenes for use in fire investigation reports.
 - Developed and tested hypotheses created from the data collected.
 - Prepared and submitted preliminary and complete reports on fire origins and causes for administrative and peer review.
- Performed the duties of a fire inspector with the Chino Valley Fire District from 04/2005-09/2022.

FIRE INVESTIGATION - FORENSICS - FIRE SCIENCE & ENGINEERING

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- Reviewed the fire protection requirements of projects for compliance with applicable codes and standards.
- Inspected the materials used, methods of installation and observed the acceptance testing of the fire protection systems.
- Inspected the storage arrangements of combustible and hazardous materials in businesses and warehouses.
- Routinely inspected the condition and maintenance documentation of automatic fire sprinkler, fire alarm, and restaurant kitchen fire extinguishing systems.
- Managed the Reserve Fire Inspector and Juvenile Firesetter programs.

Fire Marshal, City of LaHabra Heights, CA

04/2002 to 04/2005

- Responsible for the implementation and management of the weed abatement program.
- Reviewed fire sprinkler plans, construction drawings, and interacted with city officials, architects, contractors, and residents.
- Managed the Reserve Fire Inspector program.
- Investigated the origin and cause of fires and conducted community out-reach programs.

Chief of Fire and Life Safety, Los Angeles Air Force Base-TrendTec Services, El Segundo, CA
01/1999 to 04/2002

- Responsible for the maintenance and adherence to fire life safety regulations at the Los Angeles Air Force Base.
- Interacted with high ranking Air Force Officers, department chief officers, project managers, and contractors.

Paid-Call Firefighter/EMT Ambulance Driver, San Bernardino County, CA

06/1999 to 06/2008

- Responded to calls for medical aid, vehicle extrication, wildland and structural fires.
- Participated in training classes for firefighting, emergency medical care and hazardous materials.

Chief Damage Controlman, United States Navy

11/1979 to 04/1999

- Responsible for training and organizing shipboard personnel to respond and perform emergency repairs and firefighting duties.
- Train personnel, schedule maintenance and perform oversight during repairs and equipment operations.

- Provide leadership and direction during emergencies.
- Significant shore assignments:
 - Fleet Training Center Pacific San Diego (Firefighting Instructor)
 - Afloat Training Group Pacific San Diego (Ship Survivability Instructor)
 - Shore Intermediate Maintenance Activity Small Boat Repair Facility Coronado, CA

Education

Associates of Applied Science, Columbia Southern University, Orange Beach, AL

- Fire Science, 2016

Designations and Certifications

- Certified Fire Investigator, International Association of Arson Investigator, #22-1018118
10/2019

Professional Associations

International Association of Arson Investigators (IAAI)	03/2014 to Present
California Conference of Arson Investigators (CCAI)	01/2016 to Present
○ Member - Board of Directors	
San Bernardino County Arson Task Force (SBATF)	2009 to Present

Professional Association Honors and Awards

California Conference of Arson Investigators 2021 Member of the Year

Deposition and Trial Testimony

- **FWV17003505**; DA Case: 2017-00-0049283 (Rancho Cucamonga District, Superior Court)
 - September 25, 2017 preliminary hearing
 - Prosecution witness. Provided origin and cause expert witness testimony in an outdoor incendiary fire.

Professional Development

[* = NFPA 1033; H = hours; TH = tested hours]

- **International Association of Arson Investigators**

- 1/24/2019 IAAI-Investigating Motor Vehicle Fires, Newport Beach, Ca 24 TH
- 3/9/2016 IAAI-Expert Witness and Testimony, San Luis Obispo, CA 40 TH
- 4/21/2014 IAAI International Training Conference, Las Vegas, NV 40 H
- Certified Fire Investigator Trainer.Net (CFITrainer.Net)
 - 1/26/2022 Wildfires and Utility Equipment 2 TH
 - 12/9/2021 Was The Fire Accidental? 2 TH
 - 11/18/2021 Post Blast Investigations 2 TH
 - 11/9/2021 Improving Fire Investigator Health and Safety 3 TH
 - 12/30/2020 Emerging Technologies in Fire Investigation 3 TH
 - 11/3/2020 Preparation for the Marine Fire Scene 4 TH
 - 11/3/2020 Vacant and Abandoned Buildings: Hazards and Solutions 4 TH
 - 12/29/2020 Accreditation, Certification, and Certificates 3 TH
 - 11/30/2020 2021 NFPA 921 Chapters 4 & 5 Methodology & Science 2 TH
 - 11/30/2020 2021 NFPA 921 Chapters 4 & 5 Methodology & Science 2 TH
 - 8/25/2020 2021 NFPA 921 Chapter 19 Fire Cause/Classification 2 TH
 - 6/19/2020 2021 NFPA 921 Chapter 6 - Fire Patterns 2 TH
 - 5/29/2020 What the Insurance Professional Needs to Know About Fire Investigation 3 TH
 - 5/22/20 2020 NFPA and Fire Investigation 2 TH
 - 5/22/2020 Introduction to Appliances 3 TH
 - 5/22/2020 Residential Natural Gas Systems 3 TH
 - 5/22/2020 Principles of Fire Investigation-multi program certificate 67 TH
 - 3/20/2020 Fire Chemistry 3 TH
 - 3/19/2020 Fire Investigation for Fire Officers 3 TH
 - 3/19/2020 Fire Investigation for Fire Officers, Concentration in: Motor Vehicle Fires-multi program certificate 35 TH
 - 1/24/2020 How First Responders Impact The Fire Investigation 2 TH

- 8/16/2019 Critical Evaluation and Testing of Commonly Reported Accidental Causes 3 TH
- 5/3/2019 Electrical Safety 3 TH
- 5/3/2019 Arc Mapping Basics 4 TH
- 5/3/2019 Basic Electricity 4 TH
- 5/31/2019 Understanding Undetermined 3 TH
- 5/24/2019 Fire Flow Analysis 3 TH
- 3/8/2019 Charting Your Career Path In Fire Investigation 3 TH
- 2/3/2019 Knowledge 1 Motor Vehicle Fires Tier 1 8 TH
- 1/18/2019 Investigating Motor Vehicle Fires 4 TH
- 11/9/2018 DNA 3 TH
- 11/2/2018 Explosion Dynamics 4 TH
- 10/19/2018 Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems 3 TH
- 10/19/2018 Motor Vehicles: The Engine and the Ignition, Electrical, and Fuel Systems 3 TH
- 10/3/2018 MagneTek: A Case Study In The Daubert Challenge 3 TH
- 9/28/2018 Critical Thinking Solves Cases 4 TH
- 9/27/2018 Understanding Fire Through the Candle Experiments 4 TH
- 9/14/2018 Residential Electrical Systems 4 TH
- 8/31/2018 Ethical Duties Beyond the Fire Scene 3 TH
- 8/17/2018 The Deposition Part 2: Questioning Tactics and Effective Responses 3 TH
- 8/17/2018 Investigating Natural Gas Systems 3 TH
- 1/12/2018 Discovery in Criminal Cases 3 TH
- 1/12/2018 Discovery in Civil Cases 3 TH
- 7/28/2017 Basic Electricity 4 TH
- 7/21/2017 Writing the Initial Origin and Cause Report 3 TH
- 6/30/2017 Electrical Safety 3 TH
- 5/16/2016 Legal Aspects of Investigating Youth-Set Fires 3 TH

- 2/11/2016 Investigating Fire and Explosion Incidents Involving a Line-Of-Duty Death 3 TH
- 2/12/2015 The Deposition Part 1: Format, Content, and Preparation 3 TH
- 12/22/2014 Process of Elimination 3 TH
- 2/19/2014 The Practical Application of the Relationship Between NFPA 1033 and NFPA 921 2 TH
- 2/17/2014 Ethics and the Fire Investigator 3 TH
- 8/9/2013 The HAZWOPER Standard 4 TH
- 5/31/2013 Fire Protection Systems 3 TH
- 3/26/2013 Using Resources to Validate your Hypothesis 2 TH
- 3/15/2013 Charleston Sofa Super Store Fire 4 TH
- 1/18/2013 Investigating Fatal Fires 4 TH
- 1/18/2013 Search and Seizure 4 TH
- 1/11/2013 Investigating Motor Vehicle Fires 4 TH
- 1/11/2013 The Scientific Method for Fire and Explosion Investigation 3 TH
- 12/14/2012 The Impact of Ventilation in Building Structures on Fire Development 4 TH
- 12/7/2012 NFPA 1033 and Your Career 2 TH
- 9/28/2012 Evidence Examination: What Happens at the Lab? 4 TH
- 5/25/2012 The Potential Value of Electronic Evidence in Fire Investigations 4 TH
- 12/2/2011 Fire and Explosion Investigations: Utilizing NFPA 1033 and 921 4 TH
- 9/16/2011 Motive, Means, and Opportunity: Determining Responsibility in an Arson Case 4 TH
- 7/8/2011 Post flashover Fires 4 TH
- 5/6/2011 Insurance and the Fire Investigation 4 TH
- 2/25/2011 Fundamentals of Interviewing 4 TH
- 11/12/2010 Digital Photography and the Fire Investigator 4 TH
- 7/30/2010 Effective Investigation and Testimony 3 TH
- 7/16/2010 Wildland Fires Investigation 5 TH
- 5/21/2010 Fundamentals of Residential Building Construction 3 TH
- 11/20/2009 Documenting the Event 4 TH

- 11/20/2009 Physical Evidence at the Fire Scene 4 TH
 - 10/30/2009 Introduction to Evidence 4 TH
 - 10/23/2009 Fire Investigator Scene Safety 3 TH
 - 10/16/2009 Arc Mapping Basics 4 TH
 - 9/11/2009 Introduction to Fire Dynamics and Modeling 4 TH
- **California Conference of Arson Investigators (CCAI)**
 - 2/10/2022 Semi-Annual CCAI Training Conference, San Luis Obispo, CA 28 TH
*Report Writing; *Evidence Collection, Including Hands-on Exercise; *The Illustrated Science of Ignition; *Subrogation & Liability Issues; *Fire Science & Chemistry; *Fire Methodology, Burn Patterns & The Scientific Method; *Electric Vehicle Issues & Investigation; *Thermodynamics; *Electricity & Electrically Caused Fires; *Arrest Procedures & Laws of Arrest; *Field Exercise Digging Out a Post Flashover Fire Scene; *Field Exercise Building and Throwing Your Own Molotov Cocktail To Identify Fire Effects.
 - 4/14/2022 The Illustrated Science of Ignition, Chino, CA 4 H
 - 2/25/2021 Semi-Annual CCAI Training Conference, San Luis Obispo, CA 28 TH
*Fire Scene Research Sources; *Fire Technology on Scene; *Battery fires/Lithium Ion Fires; *Fireplace Investigations; *Wildland Investigations; *Fire Dynamics & Fire Pattern Analysis; *Scientific Method in Fire Investigation; *Fire Science; *Fire Technology & Fire Investigation Methodology in Reaching Origin and Cause; *District Attorney.
 - 5/6/2020 Report Writing, Alameda, CA Webinar 4 TH
 - 11/9/2020 Working the Fire Scene, Monterey, CA Webinar 2 H
 - 2/27/2020 Semi-Annual CCAI Training Conference, San Luis Obispo, CA 28 TH
Courtroom in the Classroom-* Challenges to Expert Qualifications, Methodology, and Opinions; *Preliminary Hearing/Prop 115/Discovery Motions/995 Motion (Including Demonstration); *Motion to Suppress/Motions in Limine (Including Demonstration); *Trial-Jury Deliberations (Including Demonstration); *Depositions: Explanation (Including Demonstration); *Motions in Limine (Including Demonstration); *Writs and Appeals-Grand Jury-The Expert's History; *Legal Issues and Other Things Left Unsaid.
 - 10/1/2020 Semi-Annual CCAI Training Conference, San Luis Obispo, CA 28 TH
*NFPA 921 Updates, *Scientific Method in Fire Investigations; *Fire Dynamics; *Fire Patterns and Pattern Analysis; *Civil Investigation Case Study; *Criminal Investigation Case Study; *Report Writing for Civil & Criminal Cases; *Creating your CV;

*CFITrainer.net Updates; *Honey Oil Extraction & Fire Scene Hazards; *The Prosecution of Cannabis, It's Bi-Products and the Los Angeles Nitrous Oxide Incident; *Building Your Arson Case “ The Investigation After the initial Origin and Cause on Scene”; *Legal Updates (Civil & Criminal Case Law Changes).

- 11/14/2019 Vehicle Fire Investigation, Chino, CA 4 H
- 9/26/2019 Semi-Annual CCAI Training Seminar, San Luis Obispo, CA 28 TH
Burn To Learn Scenarios (Field Exercise-Camp San Luis); *Smoke/Fire Alarm Detectors & Fire Alarm Monitoring; *Powerlines and Other Potential Heat Sources that Cause Wildland Fires; *Wildland Fire Pattern Indicators & Categories; *Wildland Fire Field Investigation Methodologies; *Powerline Hardware: Introduction of Basics on Powerline Equipment; *Powerline Issues of Ignition & Failure; *Tracking and Surveillance Techniques at Wildland Fire Scenes: *GC/MS Research Project; *Legal Updates.
- 5/23/ 2019 Fire Death Investigation, Chino, CA 4 H
- 3/14/2019 Arson Law and Penal Code Sections, San Bernardino, CA 4 H
- 2/28/2019 Semi-Annual CCAI Training Conference, San Luis Obispo, CA 28 TH
*Cognitive Interviewing, San Luis Obispo, CA
- 5/30/2018 Examination of Cigarettes as a Potential Ignition Source, San Diego, CA 4 TH
- 5/10/2018 Report Writing and Expert Witness, Ontario, CA 4 H
- 11/8/2018 Live Fire Training & Crime Scene Evidence Collection, Chino, Ca 4 H
- 11/16/2017 Why Investigating Vehicle Fires is Important, Chino, CA 4 H
- 3/9/2017 NFPA 921 Fire Scene Examination, Ontario, CA 4 H
- 11/15/2017 Semi-Annual CCAI Training Conference, San Luis Obispo, CA 20 TH
*Understanding Smoldering Fire Issues; *Crime Scene Investigation Involving Fire; *Applying Fire Dynamics Principles to Origin Determination; *Field Burn (Live and previously burned structures); *The Discovery of Radio Frequency from Smart Meters Causing Electrical Wiring Fires; *Investigating Commercial Kitchen Fires; *Fundamentals of Fire Investigation.
- 4/3/2015 Semi-Annual CCAI Training Conference, San Luis Obispo, CA: 40 TH
*Fire Science; Fire Chemistry; *Thermodynamics; *Thermometry; *Fire Dynamics; *Explosion Dynamics; *Computer Fire Modeling; *Fire Investigation; *Fire Analysis; *Fire Investigation Methodology; *Fire Investigation Technology; *Hazardous Materials; *Failure Analysis and Analytical Tools; *Fire Protection Systems; *Evidence Documentation, Collection, and Preservation; Electricity and Electrical Systems.
- 7/9/2015 Wildland Fire Indicators, Chino, CA 4 H

- 9/12/2013 Basic Electrical Systems, San Bernardino, CA 4 TH
- 5/17/2013 Wildland Fire Investigation, Riverside, CA 6 H
- 1/29/2013 Arson Murders and Fire Death Investigations, Monebello, CA 4 H
- 12/11/2012 Reading & Understanding Vehicle Fire Patterns, Riverside, CA 5 TH
- 9/22/2009 Fire Investigation Report Writing, Torrance, CA 3 H
- **National Fire Academy**
 - 11/16/2014 Youth Firesetting & Intervention: Level II, National City, CA 16 TH
 - 6/6/2014 Youth Firesetting Prevention & Intervention:Level I, Chino, CA 16 TH
 - 2/7/2014 Fire Arson Origin and Cause Investigation, Emmitsburg, MD 80 TH
- **California Office of the State Fire Marshal**
 - 1/16/2015 Fire Investigation 2B-Field Case Studies 40 TH
 - 2/11/2012 Fire Investigation 2A-Criminal and Legal Procedures 40 TH
 - 11/10/2002 Fire Investigation 1B-Techniques of Fire Investigation 40 TH
 - 10/11/2002 Fire Investigation 1A-Fire Cause and Origin Determination 40 TH
 - 5/23/2014 Prevention 3B-Plan Review 40 TH
 - 2/22/2013 Prevention 3A-Hydraulic Sprinkler Calculations 40 TH
 - 7/24/2009 Prevention 2C-Special Hazard Occupancies 40 TH
 - 5/5/2006 Prevention 2B-Interpreting the UBC and CCR-Titles 19/24 40 TH
 - 10/17/2003 Prevention 2A-Fire Protection Systems and Building Components 40 TH
 - 12/10/2000 Prevention 1C-Hazardous Materials 40 TH
 - 11/11/2000 Prevention 1B-Fire and Life Safety 40 TH
 - 10/14/2000 Prevention 1A-Duties and Administration 40 TH
- **International Association of Chiefs of Police**
 - 3/10/2015 Intermediate Juvenile Interview and Interrogation Techniques, Webinar 3 TH
 - 11/10/2014 Introduction to Developing Rapport With Youth, Webinar 3 TH
 - 10/9/2014 Introduction to Juvenile Interrogation Techniques, Webinar 3 TH
 - 8/7/2014 Introduction to Juvenile Interviewing Techniques, Webinar 3 TH
 - 6/10/2014 Introduction to Analyzing Juvenile Behavior, Webinar 3 TH

- **Blue to Gold Training**
 - 5/4/2022 Interview and Interrogation, Webinar 1.5 H
- **Riverside, California District Attorney's Office**
 - 4/22/2015 Butane Honey Oil Lab Fires, Riverside, CA 2 H
 - 6/11/2013 Investigating & Prosecuting Arson Fraud Cases, Riverside, CA 5.5 H
- **Los Angeles High Intensity Drug Trafficking Area (HIDTA)**
 - 1/6/2015 Profiling the Arsonist from Childhood Through Adult Life, Los Angeles, CA 8 H
 - 11/30/2012 Serial Arson Investigations, Montclair, CA 8 H
- **Bureau of Alcohol, Tobacco, Firearms and Explosives**
 - 9/22/2011 Interview Techniques for Arson Investigators, Los Angeles, CA 4 H
- **Orange County Fire Prevention Officers Association**
 - 6/26/2019 CPVC (Fire Sprinkler Systems) Inspection and Plan Check, Anaheim, CA 2 H
 - 5/29/2013 Aerial and Theatrical Fireworks Training, Anaheim, CA 4 H
- **National Fire Protection Association**
 - 4/9/2019 Energy Storage and Photovoltaic Systems Safety Training for First Responders, Webinar 4 H
 - 4/21/2015 Wildland Fire Ignition Pathways, Webinar 2 H
 - 10/30/2009 Conducting a Community Assessment in the Wildland/Urban Interface: Beginning the FireWise Process, Webinar 2 H
- **San Bernardino City Fire Department**
 - 10/18/2013 Juvenile Firesetting Intervention, San Bernardino, CA 8 H
- **National Wildfire Coordinating Group**
 - 11/12/2014 FI-110 Wildland Fire Observations/Origin Scene Protection for First Responders, San Bernardino, CA 8 H

- **Burn Institute**
 - 11/10/2011 Annual Juvenile Firesetter Conference-Cultivating Partnerships, San Diego, CA 16 H
- **Target Solutions, Occupational and Environmental Courseware**
 - 10/5/2015 Building Construction 1 TH
- **SimplexGrinnell**
 - 10/20/2014 Chapter 14 of NFPA 25: Assessing the Internal Condition of Piping for Water Based Fire Protection Systems, Brea, CA 1.5 H
 - 2/2/2012 NFPA 25: Requirements for Less Frequently Performed Fire Sprinkler System Inspections and Tests, Brea, CA 1.5 H
- **Johnson Controls**
 - 9/5/2018 NFPA 92-Smoke Control Systems, Chino, CA 1 H