

## CURRICULUM VITAE

### JON SPEZZACATENA, IAAI-CFI®

Mr. Spezzacatena is a fire investigator with Fire Cause Analysis, and a fire marshal in the Phoenix, AZ area. He has been in the fire service for over 35 years. Mr. Spezzacatena began conducting fire investigations in 1995, having conducted over 2,000 investigations in his career. He has conducted thousands of fire inspections and code enforcements. Mr. Spezzacatena has been the President of the Arizona Chapter of the International Association of Fire Investigators three times. He is also the past President of the Maricopa County Arson Taskforce.

#### Professional Experience

- **Certified Fire Investigator**, Fire Cause Analysis July 2013 to present
  - Determine the origin and cause of fires and explosions. Utilizing the Scientific Method, document fire and explosion scenes, collect evidence, and compose investigation reports in accordance with NFPA 1033 *Standard for Professional Qualifications for Fire Investigator* and NFPA 921 *Guide for Fire and Explosion Investigations*. Expert witness.
- **Special Investigator**, Unified Fire Investigations September 2010 to July 2013
  - Responsible for collecting and packaging pieces of evidence in securely closed containers such as bags, crates, or boxes, in order to preserve the evidentiary value.
  - Examine fire scenes and collect evidence such as glass, metal fragments, charred wood, and ignitable liquid residue for use in determining the cause of a fire.
  - Analyze evidence and other information to determine probable cause of fire or explosion.
  - Photograph damage and evidence related to causes of fires or explosions in order to document investigation findings.
- **Fire Marshal/Division Chief**, Ak-Chin Fire Department, Maricopa, AZ December 2022 to present
  - Responsible for all aspects of fire prevention, including: Fire inspections, code enforcement, fire investigations, public education, plans review, writing of the codes and standards.

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#### FIRE INVESTIGATION - FORENSICS - FIRE SCIENCE & ENGINEERING

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- **Fire Captain**, Ak-Chin Fire Department, Maricopa, AZ May 2011 to December 2022
  - Responsible for the day to day operations of the fire crews on emergency responses and the daily activities of the fire crews.
- **Fire Marshal**, Queen Creek Fire Department, Queen Creek, AZ January 2008 to 2011
  - Responsible for all aspects of fire prevention, including: Fire inspections, code enforcement, fire investigations, public education, plans review, writing of the codes and standards.
- **Fire Captain/Assistant Fire Marshal**, Rural/Metro Fire Department, Maricopa County, AZ July 2000 to January 2008
  - Assigned to the fire prevention bureau as an Assistant Fire Marshal.
  - The lead fire investigator for our department.
  - Responsible for all aspects of fire prevention which include: plans review ranging from single family residential to commercial, fire sprinklers, fire alarms, propane tank installation, fire hydrant civil plans and commercial hood systems.
  - Perform occupancy inspections in both new and existing buildings, and code enforcement.
  - Responsible for issuing permits for tents, fireworks, hazardous materials and all other permits required by the fire code.
  - Assist in the writing of our codes, policies and interpretations.
  - Performed the following on an “as needed” basis within the department:
    - Battalion Chief on the suppression side of our department
    - Public Information Officer
    - Fire Marshal
    - Engine Captain
    - Training Captain (one year)
- **Deputy Fire Marshal**, Rural/Metro Fire Department, Scottsdale, AZ June 1999 to July 2000
  - The responsibilities for this position included being in charge of the South District of Scottsdale with all relations to Fire Prevention, fire inspections on new and existing buildings, fire code enforcement, occupancy inspections and enforcement, fire sprinkler inspections, and fire origin and cause determination.
  - This position entailed being Shift Deputy Fire Marshal from 0800 to 1700 where I was in

the field doing inspections. After 1700 I was a Captain on an engine.

## **Education**

- **Associate of Arts, Fire Science**, Pima Community College, Tucson, AZ
- **Certification, Para-medicine**, Arizona Emergency Medical Research Center, Tucson, AZ
- **Bachelors of Science, Fire Administration**, Columbia Southern University

## **Professional Designations and Certifications**

- **International Association of Arson Investigators Certifications**
  - Certified Fire Investigator, certification number: 28-071516
  - Arson I to IV
- **Paramedic Certifications**
  - State of Arizona Certified Emergency Paramedic
  - Basic and Advanced Life Support Pediatric
  - Advanced Life Support American Academy of Pediatrics PEPP
- **State of Arizona Certifications**
  - FireFighter I, II, III
  - Fire Instructor I, II
  - Rope Rescue I, II, III
  - Confined Space Rescue I, II
  - Fire Inspector I, II
  - Leadership I, II, III
  - First Responder Haz-Mat, S-130-190
  - S-330 Wildland Fire and Cause Determination
  - Wildland Fire Investigation Basic Fire Investigation
  - Public Educator I, II
  - Incident Safety Officer
  - Introduction to Fire Sprinklers Managing Fire Department Tactics
- **International Code Council Classes and Certifications**
  - 2003 IFC Flammable & Combustible Liquids, 2003 IBC Solving

- Means of Egress in Commercial Buildings, IBC Special Uses and
- Mixed Occupancy Buildings, Residential Sprinkler Plan Review,
- Commercial Sprinkler Plan Review, Uniformed Fire Code
- Inspector – IFCI, Fire Inspector II –IFC
- **Pro-Board Certifications**
  - Fire Investigator
  - Fire Officer I
  - Fire Officer II
  - Fire Inspector I
  - Fire Inspector II
  - Fire Instructor I
  - Fire Instructor II

### **Professional Associations**

- President and Vice President of the Arizona Association of Arson Investigators, three terms.
- President of Maricopa County Arson Investigators
- Arizona Fire Marshals Association
- Arizona Fire Chiefs Association
- Drowning Prevention Coalition of Arizona
- National Association of Fire Protection
- International Code Council

### **Teaching Experience**

- Has instructed for the Arizona Chapter of the International Association of Arson Investigators for over 20 years.

### **Deposition and Trial Testimony**

- CV-2017-011033 Allstate Insurance Company v. Arizona Public Service Company
- CVBL2200067 Foremost Insurance Company v. Michael and Emily Grana
- CV2022-001960 Liberty Mutual Personal Insurance v. USI, INC.

- CV2020-017029 State Farm Fire and Casualty Company v. Dunrite Air Conditioning

## **Professional Development**

- International Association of Arson Investigators
  - 2025 ITC:
    - Arson - Inside The Mind; Advanced Concepts in Self-heating Fires - Case Studies
    - Case Studies in Forensic, Fire Protection Engineering; Crimes of Passion: Domestic Violence and Fire Investigations
    - Lessons From Collecting Electrical Data; Lithium-Ion Batteries: Design, Construction, Failures and Fire Causes
    - Making the Leap from Fire Investigation of Structure Fires to Heavy Machinery Fires
    - Safety and the Fire Investigator
    - SciBIT (Scientific Behavior Interview Techniques)
    - Don't Get Burned by PV/Solar Energy Fires
    - Streamlining Data Analysis in Fire Investigations Using Advanced Analytics & Generative Artificial Intelligence
  - 2022 Motor Vehicle Fire Investigation - 3 day course
  - 2019
    - A Culture Change Initiative: Improving the Health and Safety of Fire Investigators
    - Flame Jetting Awareness and Investigative Challenges
    - Marine Surveying for Fire Investigators
    - Patterns of Heat Flow and Melted Conductors
    - The Impact of Ventilation on Fire Patterns in Full-Scale Structures
    - Vehicle - Electrical Systems and Hot Surface Ignition Heat Sources
  - 2018 International Training Conference
  - 2014 International Training Conference
  - 2013 International Training Conference
  - 2010 Expert Witness - Courtroom Testimony

- International Association of Arson Investigators CFITrainer.net
  - 2025
    - An Analysis of The Station Nightclub Firer
    - Critical Thinking Solves Cases
    - Fatal Fire Investigations
    - Fire Chemistry
    - Critical Thinking Solves Cases
  - 2024
    - Alternative Fuel Vehicles
    - Electric & Hybrid Vehicle Design Basics
    - Commercial Kitchen Fires 1: Fundamentals
    - Commercial Kitchen Fires 2: Investigation
    - Critical Evaluation and Testing of Commonly Reported Accidental Causes
  - 2021
    - Fundamentals of Residential Building Construction
    - Investigating Motor Vehicle Fires
    - Motor Vehicles: The Engine and the Ignition, Electrical, and Fuel Systems
    - Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems
    - The Scientific Method for Fire and Explosion Investigation
    - NFPA 921 Chapter 8 - Active Fire Protection Systems
  - 2020
    - Basic Electricity
    - Fire Protection Systems
      - 2018 Managing Complex Fire Scene Investigations
      - 2015 The Impact of Ventilation in Building Structures on Fire Development
      - 2011 Electrical Safety
      - 2011 Fire Investigator Scene Safety
- International Association of Arson Investigators - AZ Chapter

- 2022 Advanced Fire Class
- 2021 NFPA 921 updates
- 2020 Advanced Fire Class
- 2020 - 2021 Instruction and mentoring at the AZ-IAAI Arson I - IV Program
- 2019 Advanced Fire Class
- 2018 Advanced Fire Class
- 2017 Basic Electricity and Fire
- 2015 Electrical Fires
- 2014 Natural Gas Explosions
- 2013 Arc Mapping Basics