**CURRICULUM VITAE**

**Employment, Education, Experience, Instruction & Training Records**

**Andrew M. Derrick October 2, 2020**

* Employment - History and Experience

 ‘Retired’ Fire Captain/Peace Officer –IAAI / CCAI / PRO BOARD ‘Certified Fire Investigator’

31.75 Approximate Years of Service as a Firefighter, Engineer, Acting Fire Captain/Fire Captain and Acting Division Chief with the City of Merced Fire Department – Regular duties included approx. 20 years as Fire/Arson/Bomb Investigator with periodic assignments as Fire Prevention Captain and Acting Fire Division Chief –Retired Oct. 2002

* Education

1993 Bachelor of Science Degree - California State University Stanislaus

1990 National Fire Academy – Fire/Arson Investigation (‘Tested’)

 Emmitsburg, Maryland

1974 Associate of Arts Degree – Certificate of Completion in Fire Science

 Merced College – additional Units completed at Community Colleges and

 The University of California Berkeley

* Fire and Explosions Investigative Experience

I was a Fire/Arson/Bomb Investigator Peace Officer for approximately 20 Years and served as Fire Investigation Team Leader. I also regularly assisted with fire origin and cause determination prior to advancement. During my fire service career I responded to more than 2000 fire and explosion related incidents and assisted with and/or had the responsibility for origin and cause determination and investigation of approximately 1011 fire/explosion and bomb related incidents:

* 451 Residential Structure Fires 14 Explosions and Bombings
* 41 Commercial/ Industrial Fires 13 Fire Related Deaths
* 179 Vehicle / Aircraft Fires 314 Grass/Brush Outdoor Fires
* 12 Mobile Home Fires
* I have directed and participated in Fire/Death Investigations with California Department of Justice (D.O.J.), California Department of Forestry (CALFIRE), the Bureau of Alcohol Tobacco and Firearms (BATF) and the California State Fire Marshal’s Office (In addition to working with Merced City and County District Attorneys, Fire, Police, and Sheriff’s Officials)

Approx. 28 Years – ‘Private’ Fire/Explosions Investigator - 08/28/92 # PI 15809 - and approximately (1) year employment (14 investigations conducted) as a Private Fire Investigator for Tyson Fire Investigations.

As a Private Fire Investigator - To date I have participated in the investigation (or professional fire origin and cause consultation) of approximately (446) Commercial, Structure, Mobile Home, Vehicle, Marine, fire and explosion incidents; including the fire related deaths of (10) persons, for private and corporate entities.[[1]](#footnote-1) I have determined that at least (20) of these fires were intentionally caused (approx. <4.48%).

I co-investigated two incidents which resulted in fire deaths with world renowned Fire Scientist/Author and Educator Dr. John DeHaan – a commercial fire/explosion and a catastrophic multi-residential fire that caused the deaths of five persons. The commercial incident occurred in Chico California and involved the explosion of a large gasoline storage tank and the multiple death fire occurred in Lemoore California.

* Expert Witness Testimony Experience

I have testified in multiple criminal and civil court matters as an expert witness in fire origin and cause determination and other fire bomb related issues, and prepared and served search warrants. I also served in Merced County Superior Court as Juror and Jury Foreman in a civil matter. [‘Court Testimony’ listing upon request.]

* Fire Service Assignments:
* Acting Fire Division Chief (Platoon Supervisor and Acting Fire Marshal)
* Fire Captain – All Engine and Truck Companies
* Fire/Arson/Bombing Investigations
* Phoenix Fire/Arson Investigation Team Leader
* Airport Operations– Aircraft Rescue & Firefighting
* Certifications and Permits:

2017 Master Certified Fire Investigator – California Conference of Arson Investigators

2013 CFI - IAAI Certified Fire Investigator #22-111671 Pro Board Certified

(National Board of Fire Service Professional Qualifications)

2006 CFI - CCAI Certified Fire Investigator – Certification #598

1992 California Licensed Private Investigator # PI 15809

California B.S.I.S. Firearms Open Carry Permit

1991 October Fire Investigator II Office of the Calif. State Fire Marshal (CFSTES)

1984 February Fire Investigator I Office of the Calif. State Fire Marshal (CFSTES)

1973/74 CPC – 832 – Arrest/Firearms

1. ‘Sworn’ Fire Department Officer

* During my tenure as a Fire/Arson/Bomb Investigator/Peace Officer, I

participated in the apprehension, arrest and successful prosecution of multiple

felony and misdemeanor suspects.

* Peace Officer Standard Training P.O.S.T / Certifications:

#### Reserve Police Officer Level II /III and Continued Advanced Officer Training

 including; – Lethal Force/Weaponry

 1989 Graduate – Officer Safety and Field Tactics for the

 Arson Investigator - California Specialized Training Institute (CSTI)

Additional State Fire Training - Fire Service Certifications:

Chief Fire Officer - CFO Fire Officer

Fire Instructor Fire Apparatus Operator

Fire Firefighter I, II & III Hazmat First Responder

* Professional Organizations:

National Fire Protection Association (NFPA) Past Member

International Association of Arson Investigators (IAAI) Member

California Conference of Arson Investigators (CCAI) Member Central Valley Arson Investigators Assoc. (CVAIA) Past President/Assoc. Member

CCAI Gold Coast Round Table #8 Coordinator 2012-16 Training/CFI Committee Member

CCAI Sierra South Round Table #4 Coordinator 2007-12 Ethics Committee Member

National Association of Fire Investigators Member Northern California Training Officers Division Past – Exe. Board Member

International Fire Service Training Assoc. (I.F.S.T.A.) Past Member

California State Sheriff’s Association Assoc. Life Member

Peace Officers Research Association of Calif. (P.O.R.A.C) Assoc. Member

Awards: Merced Fire Department Firefighter of the Year 1988

CSTI – Arson Officer Safety and Field Tactics Firearms Training ‘Top Gun Award’

CCAI – Thomas “Ski” Kuczynski Memorial 2014 ‘Officer of the Year Award’ 2014

CCAI – Recognition ‘Round Table Coordinator of the Year’ 2010

Additionally, I have received multiple written Commendations relating to successful individual performance and Fire Company performance during Firefighting Operations and Fire/Arson/Bombing Investigations.

## Publications/Committees:

I authored a periodical article Fire Scene Examination of Burned Vehicle #4 published in the California Conference of Arson Investigators Association periodical: California Fire/Arson Investigator, Winter 2011 edition.

I was a Member and Secretary of two \*I.F.S.T.A. Committees. The committees developed, edited, and validated two training manuals “Fire Origin And Cause Determination" and “Fire Investigator” which were subsequently published. IFSTA training manuals are nationally and internationally recognized as quality training materials for Firefighters, Fire and Explosion investigators, Law Enforcement, Attorneys, Fire Protection and other Professionals. \*IFSTA – The International Fire Service Training Association

 Oklahoma State University – Stillwater, Oklahoma

Committee Member - Fire Symposium IV "Mitigating the Arson and Bomb Problem in California" Sponsored By: the California State Fire Marshal, the State Board of Fire Services, and the Governor's Special Arson Task Force.

Periodicals:

The California Fire Investigator (CCAI), Fire & Arson Investigator (IAAI), The California Fire Service (CFSA), Scientific American, Popular Science, Popular Mechanics, NFPA Journal, National Fire Investigator (NAFI)

* (CSFM) Calif. State Fire Training relating to Investigative Certifications:
* \*State Certification requires testing with a minimum 70% score and verification of prerequisite training and experience by the fire chief or police chief. All testing was proctored by an “accredited instructor”.

1984 Certified Fire Investigator I - CSFM

 1A – Fire Cause and Origin Determination

 1B – Techniques of Fire Investigation

 1C – Laws of Arrest, Search and Seizure

1991 Certified Fire Investigator II - CSFM

 2A – Criminal and Legal Procedures 2B – Field Case Studies

 \*Additional requirements include: Investigator I and experience in all aspects of

 fire & explosions investigation JPR’s and expert witness testimony.

* (CSFM) Fire/Rescue And Command State Fire Training:

\*Certified Firefighter I & II / Fire Instructor

1A – Instructional Techniques – Part 1 1B – Instructional Techniques – Part 2

‘97-’98 Instructor - Fire/Arson Investigation - Merced College (one semester)

1992 Fire Instructor - Fire Control 3 Fire/Arson 32 Hours

1991 Assistant Instructor Fire Investigation Class w/ Tom Robello – 36 Hours

1987 Assistant Instructor Structure Fire Investigation w/State Fire Marshal Scott Baker

 1978 Participated in the State Fire Marshal Fire Fighter II Validation Test

\*Certified Fire Officer –

1A – Management Supervision for Company Officers

1A – Instructional Techniques 1A – Fire Inspection Practices

1A – Fire Origin and Cause Determination 1B – Instructional Techniques – Part 2

1B – Fire Command 1B – Code Enforcement

1B – Hazardous Materials for Company Officers

\*Certified Chief Officer - Command

2A – Command Tactics at Major Fires 2C – High Rise Fire Tactics

2B – Scene Management at Major Incidents 2D – Managing Large Scale Disasters

 2E – Wildland Fire Tactics

* Management

2A – Organizational Development and Human Relations

2B – Finance and Business Management for Chief Officers

2C – Computer Applications for the Fire Service

2D – Strategic Planning

2E – Staff Assignment and Line Functions

* Additional State Fire Training Certifications:

1994 State Fire Marshal – ICS-334 Strike Team Leader Engine

1983 State Fire Marshal – Rope Management 8 Hours

1982 State Fire Marshal – Fire Control III, L.P.G. 8 Hours

1980 State Fire Marshal – Emergency Care 30 Hours

1975 Emergency Medical Technician (EMT) (1) Semester Merced College

1974 Calif. Dept. of Education – Auto Extrication 15 Hours

* Scientific Testing And Experimentation

During a CCAI Training Seminar (Oct. 2012) as a member of the Training Committee I assisted Dr. John DeHaan and Jim Albers in conducting tests of fire safe cigarette ignition of various combustibles and potting soil; by taking photographs to be used for an article to be written explaining the results of our testing. We also demonstrated the explosive results of aerosol containers involved in fires within compartments.

On March 12, 2007 my associate Mr. Jack Meade B.S. and I participated in and assisted with the scientific examination and testing of a residential propane fuel gas system, its related components and other exemplar components.

The field-testing took place at the scene of a severely fire damaged home located in Yosemite West, California and was conducted to test the plausibility of a proposed fire origin and cause hypothesis. The testing was conducted by two highly qualified professional engineers: Dr. Glen Stevick P.E. and Mr. John M. Freeman M.S./P.E. and was witnessed by attorneys: Mr. Geordan Goebel Esq. and Mr. John R. Fletcher, Esq. The testing ruled out alternative hypotheses and could not disprove the working hypothesis. The conclusion was that the working hypothesis was the most reasonable and plausible explanation of the fire origin and cause.

During a CCAI Training Seminar (Nov. ‘07) I assisted Dr. John DeHaan and video recorded (for CCAI) his NFPA 705 testing regarding of the ignition properties of various combustible materials. During the semi-annual conferences on an ongoing basis, I have participated in the construction of testing modules, set-up and testing of: cigarette ignition of gasoline vapors, spontaneous heating and ignition and fire behavioral aspects of other combustible materials during ignition experiments. The experiments were conducted with and under the supervision of the listed instructors.

* Additional Training/Burns – Participation, Instruction and Co-Instruction

I have participated in the organized controlled burning of at more than 50 buildings and vehicles for fire investigative and firefighting training. During many of these training burns I acted as instructor or assistant instructor of fire/arson investigation. We ignited the buildings and vehicles in many different ways to observe the effects of; ignition, ventilation, fuel package arrangement and geometry, fire environments and the various effects of the fire control efforts have on the fire behavior and relative evidence.

* Recently during the CCAI conference March-April 2014 I participated in and co-instructed portions of a vehicle fire scene investigation training module with Dr. David Icove, Robert Toth and Tom Fee. I instructed the examination of one burned vehicle.
* Additionally in 2014, I volunteered to assist with the field examinations of the internationally recognized SLOFIST Inc. ‘Fire Death’ training class. Among other duties I assisted Dr. John Dehaan in recovering bodily fluid samples from multiple cadavers.
* June 4-8 and June 25-29, 2012 I traveled to Texas with Mr. Tom Fee of Fee Investigations as one member of a four-person team assigned to investigate the origins and causes of three wildland-interface fires that occurred in September of 2011. I participated in the wildland fire pattern analyses, evidence documentation and collection, and in the gridding and stratigraphic excavation of a specific outdoor location. During the second phase of the investigations I was assigned to conduct the witness interviews.
* During the CCAI conference March-April 2009 I participated in a fire scene investigation demonstration/training module with Mr. Lou Bilancia Professional Electrical Engineer. We were one of three teams developed to provide the teaching demonstrations. We investigated a fire scene involving a building which was previously burned (without our knowledge) and video-taped.

The scene examination/investigation was conducted as a teaching demonstration with approximately 30+ students (CCAI attendees) observing and questioning the evidence and our methods. We followed NFPA 921 guidelines and employed the systematic methodology suggested therein. We demonstrated initial/preliminary scene assessment, examination of the scene fire patterns and evidence, , witness interviewing, excavation and reconstruction, evidence collection techniques, the obtaining and processing of potential accelerant samples for testing, hypotheses generation and testing and fire origin and cause determination.

Together Mr. Bilancia and I examined the residential electrical system devices and the attached electrical appliances, and collected additional evidence. We developed our findings and employed an “Ignition Matrix” recently developed by Mr. Bilancia to consider and test/eliminate or confirm various ignition sources and initial fuels. The following day we presented our findings to the general assembly and afterward the video tape of the fire was shown. Our team was the only team to accurately determine the origin and cause of the fire.

* During a CCAI conference March 2010 I participated in a fire scene investigation demonstration/training module as a co-instructor with Mr. Vern Canon Fire Marshal Nevada County Consolidated Fire District. We were one of four teams developed to provide the teaching demonstrations. We investigated a vehicle fire scene involving a car which was previously burned (without our knowledge) and video-taped. The scene examination/investigation was conducted as a teaching demonstration with approximately 30+ students primarily investigators (CCAI attendees) observing and questioning the evidence and our methods.

While conducting our investigation demonstration we followed NFPA 921 guidelines and employed the systematic methodology suggested therein. We demonstrated initial/preliminary scene assessment, examination of the fire patterns and evidence, witness interviewing, excavation of the interior of the vehicle, and the use of an accelerant detection canine. We examined the vehicle and additional evidence. We developed alternative fire origin and cause hypotheses and cognitively tested them. The following day we presented our findings to the general assembly and afterward the video tape of the fire was shown.

Although members of our team were of different opinions as to the fire cause our team most accurately determined the most probable specific vehicle area in which the fire originated; in the engine compartment or immediately adjacent in the driver’s side front wheel well. The following day we presented our findings to the general assembly and afterward the video tape of the fire was shown. The tape revealed that the fire was set under the driver’s side wheel well with a wooden match and newspapers; wind and suppression had blown the newspapers and match away during and after the fire.

Following the training seminar I with input from Vern Canon authored (the earlier listed article) for the CCAI California Fire/Arson Investigator magazine documenting the training and examination of the vehicle fire.

* Continuing Fire/Arson/Bomb Investigation Related Training:

2020 September C.C.A.I. Advanced Fire and Arson Investigation – tested 28 Hours

2020 February C.C.A.I. Advanced Fire and Arson Investigation – tested 28 Hours

2019 September C.C.A.I. Advanced Fire and Arson Investigation – tested 28 Hours

2019 February C.C.A.I. Advanced Fire and Arson Investigation – tested 28 Hours

2018 November IAAI/CFITrainer – Understanding Undetermined 3 Hours

2018 September C.C.A.I. Advanced Fire and Arson Investigation – tested 28 Hours

2018 March C.C.A.I. Advanced Fire and Arson Investigation – tested 28 Hours

2017 November C.C.A.I. Advanced Fire and Arson Investigation – tested 20 Hours

2017 March C.C.A.I. Advanced Fire and Arson Investigation – tested 20 Hours

2016 April Advanced Explosives Recognition w/live explosive fire Lab 8 Hours

2016 November C.C.A.I. Advanced Fire and Arson Investigation – tested 20 Hours

2016 October ‘The Gun School’ B.S.I.S Firearms Course – tested/Range 16 Hours

2016 C.C.A.I. Round Table #8 – ‘Road Map to Evidence Collection’ 3 Hours

2015 October C.C.A.I. Advanced Fire and Arson Investigation– tested 20 Hours

2015 October IAAI/CFITrainer – Residential Natural Gas Systems – tested 3 Hours

2015 April Sacramento/Sierra Arson Task Force – Forensic Photography 8 Hours

2015 March C.C.A.I. Educational Compliance NFPA 1033– tested 40 Hours

2014 November C.C.A.I. Advanced Fire and Arson Investigation – tested 20 Hours

2014 October IAAI/CFITrainer – Fundamentals of Interviewing 4 Hours

2014 October IAAI/CFITrainer – Process of Elimination 3 Hours

2014 October IAAI/CFITrainer – Documenting the Event 4 Hours

2014 October Forensic Vehicle Fire Investigation (SLOFIST Inc.) – tested 32 Hours

2014 May Social Media for Fire Investigations 3 Hours

2014 May Advance Explosive Recognition w/live explosive fire Lab 8 Hours

2014 March C.C.A.I. Advanced Fire and Arson Investigation – tested 20 Hours

2013 June FI-210 Wildland Fire Origin/Cause Determination – tested 36 Hours

2013 April IAAI/CFITrainer – ‘Hazwoper’ Hazardous Materials Standard 4 Hours

2013 March C.C.A.I Advanced Fire & Arson Investigation – tested 20 Hours

2013, March IAAI/CFITrainer – Writing Origin & Cause Report – tested 3 Hours

2013 February Multidisciplinary Approach to Investigation of Fatal Fires 8 Hours

2013 January IAAI/CFI Trainer – Critical Thinking Solving Cases – tested 4 Hours

2012 October C.C.A.I. Advanced Fire/Arson Investigation – tested 20 Hours

2012 June ATF – Electrical Fire Investigation 16 Hours

2012 May C.V.A.I. Explosives -Post Blast Investigation 6 Hours

2012 March C.C.A.I Advanced Fire/Arson Investigation – tested 20 Hours

2011 December IAAI/CFITrainer Arc Mapping Basics – tested 4 Hours

2011 November C.C.A.I Fire/Arson Investigation – tested 20 Hours

2011 September C.V.A.I.A. Evidence Collection 4 Hours

2011, March C.C.A.I. Advanced Fire/Arson Investigation – tested 20 Hours

2011 February International Fire and Materials Conference in S.F.

 Principles of Electrical Fires & Explosions Vytenis Babrauskas, PhD 3 Days

2010 November C.C.A.I. Fire/Arson Investigation – tested 20 Hours

2010 September International Association Of Arson Investigators, Inc.

2010 May C.V.A.I. Explosives -Post Blast 8 Hours

2010 September IAAI/CFITrainer – Understanding Fire/Candle Experiments 4 Hours

2010 September International Association Of Arson Investigators, Inc.

2010 September CFI Trainer – Electrical Safety – Tested 3 Hours

2010 July IAAI Investigation of Electrical & Appliance 20 Hours Related Fires A Technical/Scientific Approach - Tested

2010 April C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2009 November C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2009 April C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2009 January Principles of Electrical Fires – Vytenis Babrauskas, PhD. 2 days

2008 November C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2008 March C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

Electrical Ignition Sources – Jim Allen/Joe Konefal

2007 November C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2007 August Public Agency Training Council – Tested 22 Hours

 (Course Of Instruction: Fire Pattern Recognition/Certification)

2007 March C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2006 December C.V.A.I. – Explosive Recognition 8 Hours

2006 July C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2006 January C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2005 December Fire/Arson Investigator Academy– Tested 40 Hours

2005 July C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2005 January C.C.A.I. Fire/Arson Investigation – Tested 20 Hours

2004 December P.A.T.C. Electrical Fire/Arson Investigation – Tested 22 Hours

2004 December P.A.T.C. Advanced Fire Origin & Cause – Tested 24 Hours

2004 July C.C.A.I. Fire / Arson Investigation – Tested 20 Hours

2004 May C.V.A.I. – 921 Class 8 Hours

2004 March Evidence Photography 14 Hours

2004 February C.V.A.I. Interviewing Techniques 8 Hours

2004 January C.C.A.I. Fire / Arson Investigation – Tested 20 Hours

2003 May C.V.A.I. – Report Writing 5 Hours

2003 July C.C.A.I. Fire / Arson Investigation 20 Hours

2003 January C.C.A.I. Fire / Arson Investigation 20 Hours

2002 December Electrical Fire Investigation Riggs and Powell 20 Hours

2002 July C.C.A.I. Fire / Arson Investigation 20 Hours

2002 April C.V.A.I.A. – Report Writing 8 Hours

2002 February Courtroom Fire Case Testimony – Doug Wood 7 Hours

2002 January C.C.A.I. Fire / Arson Investigation – Tested 20 Hours

2001 October I.A.A.I. Nevada – NFPA 921/Bldg. Const. - Tested 20 Hours

2001 July C.C.A.I. Fire / Arson Investigation 20 Hours

2001 January C.C.A.I. Fire / Arson Investigation 22 Hours

2000 July C.C.A.I. Fire / Arson Investigation 20 Hours

2000 Spring Electrical Fire Investigation

2000 Spring Appliance Fire Investigation

2000 January C.C.A.I. Fire / Arson Investigation 18 Hours

1999 September NOR/CAL T.O.’s Practical Fire Investigation 8 Hours

1999 March C.V.A.I.A. Electrical Fire Investigation 8 Hours

1999 September C.V.A.I.A. Fire/ Evidentiary Issues 8 Hours

1999 July C.C.A.I. Fire / Arson Investigation 18 Hours

# 1999 February C.A.L.I. Privacy and the P.I. 8 Hours

1999 January C.C.A.I. Fire / Arson Investigation 18 Hours

1998 July C.C.A.I. Fire / Arson Investigation 18 Hours

1998 January C.C.A.I. Fire / Arson Investigation 18 Hours

1997 January C.C.A.I. Fire / Arson Investigation 18 Hours

1996 January C.C.A.I. Fire / Arson Investigation 18 Hours

1995 January C.C.A.I. Fire / Arson Investigation 18 Hours

1994 June Wildland Fire Investigation 8 Hours

1994 January C.C.A.I Fire / Arson Investigation 8 Hours

1993 July C.C.A.I Fire / Arson Investigation 18 Hours

1992 January C.C.A.I Fire / Arson Investigation 18 Hours

1991 July C.C.A.I Fire / Arson Investigation 18 Hours

1990 January C.V.A.I. Structural Fire Investigation 24 Hours

1990 June C.C.A.I. Fire and Arson Invest. 18 Hours

1990 January C.C.A.I. Fire and Arson Invest. 18 Hours

1989 December Fire Investigation 2A - Allen –Tested 36 Hours

1989 November C.V.A.I. Structural Fire Investigation 8 Hours

1989 June C.C.A.I Fire and Arson Invest. 18 Hours

1989 May Officer Safety and Field Tactics – Arson Tested

1989 February State Fire Marshal – Fire Death Investigation 8 Hours

1989 January C.C.A.I. Fire and Arson Investigation 18 Hours

1988 September Advanced Peace Officer Training 12 Hours

1988 May State Fire Marshal-Fire Investigation – S. Baker 4 Hours

1988 June C.C.A.I. Wildland Fire Invest. 18 Hours

1988 March Kinetic Interview Techniques - Link/Foster 18 Hours

 C.C.A.I. Explosive Ordinance – Flannigan 6 Hours

 B.A.T.F. Blast Scene Investigation 8 Hours

 Crime Scene Evidence Stone 4 Hours

 Case Report Testimony –Goodnight 4 Hours

1988 May Calif. State Fire Marshal - Fire Investigation

 Instructor - S. Bake 4 Hours

1988 January B.A.T.F. Explosives Invest. - Flannigan 8 Hours

1987 June C.C.A.I. Fire and Arson Invest. 20 Hours

 Structure Fire Origins 4 Hours

 Estimating Fire Damage 4 Hours

 Fire Death Investigation 2 Hours

 Fire Death Pathology/ Juvenile Law 4 Hours

1987 January C.C.A.I. Insurance Investigations 2 Hours

1987 October Fire Investigation 2b - Jones –tested 36 Hours

1986 May State Fire Marshal – Fire/Police Fire/Bomb Scene 3 Hours

1985 February Fire Prevention 1B - tested 36 Hours

1984 July Central Valley Arson Investigators Association

 (C.V.A.I.A.1) Structural Fire Investigation 8 Hours

1984 February Fire Investigator I Certification – tested

1983 January Fire Investigation 1B - Mcgill/Navarette/DeHaan-Tested 36 Hours

1983 January Fire Investigation II – Tested 36 Hours

1982 December Fire Investigation 1A - Navarette – Tested 36 Hours

1982 November Fire Investigation I – Tested 36 Hours 1981 August CHP & State Fire Marshall “Hazardous Materials”

 Fire & Explosion Chemistry - Behavior & Investigation

1979 January Calif. State Fire Marshal Arson/Bomb – Fire Investigation 8 Hours

 (C.VA.I.A.) Central Valley Arson Investigators Association

1. Includes: Consultation and/or Review of incidents within the specific categories listed above. [↑](#footnote-ref-1)