

PROFILE

Mr. Hays has personally investigated or supervised over 1,500 fire investigations. Investigations have included fires and explosions involving fatalities and complex subrogation issues involving multi-million dollar losses. Investigations include residential structures, vehicles, commercial structures, industrial complexes and manufacturing, wild land, marine vessels, and aircraft. Key strengths include the following:

- ▶ Multiple Fatality Losses
- ▶ Large/Complex Losses
- ▶ Spontaneous Combustion
- ▶ Industrial/Manufacturing
- ▶ Oil & Gas Facilities and Equipment
- ▶ Large Warehousing Facilities
- ▶ Trucking Equipment
- ▶ Wildfires
- ▶ Boats and Vessels

OFFICE

Dallas, Texas

CONTACT

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CORPORATE OFFICE

5565 Glenridge Connector

Suite 900

Atlanta, GA 30342

WEBSITE

www.envistaforensics.com

EDUCATION

- 1993 **Allan Hancock College**
Santa Maria, California
Fire Science
- 1993 **Los Angeles Valley College**
Van Nuys, California
Fire Science
- 1989 **Pierce College**
Woodland Hills, California
General Education
- 1987 **Granada Hills High School**
Granada Hills, California
High School Diploma

LICENSES

Licenses (Private Investigator)

Arizona
Arkansas
Oklahoma
Texas

Individual Licenses (Private Investigator) Not Required

California (Work under Agency License)

Colorado

Idaho

Mississippi

South Dakota

CERTIFICATIONS

National Association of Fire Investigators (NAFI)

Sarasota, Florida

CFEI – Certified Fire & Explosion Investigator (#6768-2393)

CVFI – Certified Vehicle Fire Investigator (#6768-2393V)

CFII – Certified Fire Investigator Instructor (#6768-2393IV)

International Association of Fire Investigators (IAAI)

Crofton, Maryland

Fire Investigation Technician (FIT)

ENSA

Sweetwater, Texas

Wind Energy Safe Access and Rescue (WE1002)

Compliance Training Online (a division of KRIST Incorporated)

Certified in Permit and Non-permit Confined Space Entry

California State Fire Marshal

Sacramento, California

Firefighter II

California State Fire Marshal

Sacramento, California

Firefighter I

Actionable Insights Matterport®

Certified No. 00297

CONTINUING EDUCATION

June 1992	Los Angeles County Department of Health Services <i>Canyon Country, California</i> <i>Emergency Medical Technician</i>	148 Hours
April 1993	Allan Hancock College Fire Academy <i>Santa Maria, California</i> <i>Fire Control VI</i>	16 Hours
May 1993	California Specialized Training Institute, Hazardous Materials <i>San Luis Obispo, California</i> <i>Hazardous Materials</i>	8 Hours
May 1993	Allan Hancock College Fire Academy <i>Santa Maria, California</i> <i>Fire Science, Fire Behavior, Suppression Tactics and Fire Investigation</i>	360 Hours
May 1993	National Wildfire Coordination Group <i>Santa Maria, California</i> <i>Wild Land Firefighting</i>	32 Hours
1993	California State Fire Marshal <i>Sacramento, California</i> <i>Firefighter I</i>	175 Hours
1993	California State Fire Marshal <i>Sacramento, California</i> <i>Fire Investigation</i>	40 Hours
June 1995	United States Forest Service <i>Sylmar, California</i> <i>Wild Land Fire Investigation</i>	16 Hours
1996	California State Fire Marshal <i>Sacramento, California</i> <i>Firefighter II</i>	175 Hours
September 1996	Los Angeles Police Department <i>Los Angeles, California</i> <i>Police Academy</i>	1064 Hours
May 1999	West Coast Detective Academy <i>North Hollywood, California</i> <i>Fire & Explosion Investigations, Interviewing Techniques, Insurance Fraud Awareness, Scene Photography & Video</i>	366 Hours

August 1999	National Association of Fire Investigators (NAFI) <i>Chicago, Illinois</i> <i>Fire & Explosion Investigations & Analysis</i>	40 Hours
2001	Unified Investigations & Sciences, Inc. <i>Dallas, Texas</i> <i>UIS Investigation School / Investigations</i>	40 Hours
July 2001	California Conference of Arson Investigators (CCAI) <i>San Luis Obispo, California</i> <i>Arson / Fire Investigations</i>	22 Hours
August 2001	McKaig & Associates, Inc. <i>El Cajon, California</i> <i>Advanced Vehicle Fire Investigation</i>	8 Hours
January 2002	California Conference of Arson Investigators (CCAI) <i>San Luis Obispo, California</i> <i>Arson / Fire Investigations</i>	22 Hours
July 2003	California Conference of Arson Investigators (CCAI) <i>San Luis Obispo, California</i> <i>Arson / Fire Investigations</i>	22 Hours
July 2004	California Conference of Arson Investigators (CCAI) <i>San Luis Obispo, California</i> <i>Arson / Fire Investigations</i>	22 Hours
July 2005	California Conference of Arson Investigators (CCAI) <i>San Luis Obispo, California</i> <i>Arson / Fire Investigations</i>	22 Hours
July 2006	California Conference of Arson Investigators (CCAI) <i>San Luis Obispo, California</i> <i>Arson / Fire Investigations</i>	22 Hours
January 2007	California Conference of Arson Investigators (CCAI) <i>San Luis Obispo, California</i> <i>Arson / Fire Investigations</i>	22 Hours
April 2007	Unified Investigations & Sciences, Inc. <i>Dallas, Texas</i> <i>UIS Investigation School / Investigations</i>	40 Hours
March 2009	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Ethics and the Fire Investigator</i>	3 Hours

April 2009	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Fire and Explosion Investigations: Utilizing NFPA 1033 and 921</i>	4 Hours
April 2009	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Investigating Motor Vehicle Fires</i>	4 Hours
August 2009	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>The Scientific Method for Fire and Explosion Investigation</i>	3 Hours
September 2009	North Texas Fire Investigators Association <i>Lewisville, Texas</i> <i>Compartment Fires and Dynamics of Flashover</i>	5 Hours
February 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>A Ventilation-Focused Approach to the Impact of Building Structures and Systems on Fire Development</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Arc Mapping Basics</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Critical Thinking Solving Cases</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Digital Photography and the Fire Investigator</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Documenting the Event</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Effective Investigation and Testimony</i>	3 Hours
February 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Evidence Examination: What Happens at the Lab?</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Insurance and the Fire Investigation</i>	4 Hours

February 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>Introduction to Evidence</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>Investigating Fatal Fires</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>Managing Complex Fire Scene Investigations</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>Motive, Means, and Opportunity: Determining Responsibility in an Arson Case</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>Physical Evidence at the Fire Scene</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>Postflashover Fires</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>Preparation for the Marine Fire Scene</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>The HAZWOPER Standard</i>	4 Hours
February 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>Understanding Fire Through the Candle Experiments</i>	4 Hours
March 2010	International Association of Arson Investigators, Inc. CFITrainer.net <i>An Analysis of the Station Nightclub Fire</i>	4 Hours
March 2010	North Texas Fire Investigators Association Coppell, Texas <i>Expert Report Writing</i>	5 Hours

March 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Fire Dynamics Calculations</i>	4 Hours
March 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Fire Investigator Scene Safety</i>	3 Hours
March 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Introduction to Fire Dynamics and Modeling</i>	4 Hours
March 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>MagneTek: A Case Study In The Daubert Challenge</i>	2 Hours
March 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Vacant and Abandoned Buildings: Hazards and Solutions</i>	4 Hours
May 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Fundamentals of Residential Building Construction</i>	3 Hours
May 2010	Public Agency Training Council <i>Denton, Texas</i> <i>Hands-On Vehicle Fire/Arson Investigation</i>	20 Hours
June 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Wildland Fire Investigation</i>	5 hours
June 2010	Public Agency Training Council (PATC) <i>Denton, Texas</i> <i>Hands on Vehicle Fire/Arson Investigation</i>	20 hours
August 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Electrical Safety</i>	3 Hours
September 2010	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Fundamentals of Interviewing</i>	4 Hours
January 2011	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Explosion Dynamics</i>	4 Hours

January 2011	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Search and Seizure</i>	4 Hours
February 2011	North Texas Fire Investigators Association <i>Goodson Engineering</i> <i>Fire Origins Relating to CSST</i>	7 Hours
March 2011	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>DNA</i>	3 Hours
May 2011	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>How First Responders Impact The Fire Investigation</i>	2 Hours
June 2011	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>The Fire Investigator & the 2011 NFPA 921 Changes</i>	4 Hours
July 2011	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Fire Protection Systems</i>	3 Hours
September 2011	Armstrong Forensic Laboratory <i>Arlington, Texas</i> <i>Identifying the Source</i>	1 Hours
October 2011	International Association of Arson Investigators, Inc. <i>CFITrainer.Net</i> <i>Charleston Sofa Super Store Fire</i>	4 Hours
November 2011	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>The Potential Value of Electronic Evidence in Fire Investigations</i>	4 Hours
April 2012	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Writing the Initial Origin and Cause Report</i>	3 Hours
June 2012	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Using Resources to Validate Your Hypothesis</i>	2 Hours
June 2012	OSHAcademy <i>Electrical Safety Basics</i>	7 Hours

February 2013	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>NFPA 1033 and Your Career</i>	2 Hours
February 2013	Bureau of Alcohol, Tobacco, Firearms & Explosives <i>Critical Thinking and Analytical Techniques for Credible Origin Determinations</i>	8 Hours
February 2013	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>The Practical Application of the Relationship Between NFPA 1033 and NFPA 921</i>	2 Hours
April 2013	State Fire Marshal's Office, Plano Centre, and Plano Fire Administration <i>Plano, Texas</i> <i>Surviving The Daubert Challenge By Kathy Crouch And Dr. Dave Icove</i>	12 Hours
October 2013	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Ethics and Social Media</i>	3 Hours
February 2014	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Basic Electricity</i>	4 Hours
February 2014	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>NFPA 921 and 1033 2014 Editions: Important Revisions</i>	3 Hours
February 2014	Bureau of Alcohol, Tobacco, Firearms & Explosives <i>Critical Thinking and Analytical Techniques for Credible Origin Determinations</i>	8 Hours
June 2014	Collin County Fire and Arson Investigation Association <i>Fire Death Investigations / Post Blast</i>	36 Hours
June 2014	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Residential Electrical Systems</i>	4 Hours
August 2014	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Process of Elimination</i>	3 Hours

February 2015	<p>International Association of Arson Investigators, Inc. CFITrainer.net <i>The Deposition Part 1: Format, Content, and Preparation</i></p>	3 Hours
April 2015	<p>International Association of Arson Investigators, Inc. CFITrainer.net <i>The Deposition Part 2: Questioning Tactics and Effective Responses</i></p>	3 Hours
April 2015	<p>Compliance Training Online <i>a division of KRIST Incorporated</i> <i>Permit and Non-permit Confined Space Entry</i></p>	2 Hours
May 2015	<p>International Association of Arson Investigators, Inc. CFITrainer.net <i>Residential Natural Gas Systems</i></p>	3 Hours
June 2015	<p>International Association of Arson Investigators, Inc. CFITrainer.net <i>Investigating Natural Gas Systems</i></p>	3 Hours
November 2015	<p>International Association of Arson Investigators, Inc. CFITrainer.net <i>Accreditation, Certification, and Certificates</i></p>	3 Hours
November 2015	<p>Safety Unlimited, Inc. <i>Asbestos Awareness Training – In Accordance with Federal OSHA and EPA Regulations</i></p>	2 Hours
February 2016	<p>International Association of Arson Investigators, Inc. CFITrainer.net <i>Investigating Fire and Explosion Incidents Involving a Line of Duty Death</i></p>	3 Hours
April 2016	<p>Texas State Fire Marshal’s Office – Department of Insurance <i>Richardson, Texas</i> <i>Lightning Fire Investigation Class</i></p>	8 Hours
June 2017	<p>International Association of Arson Investigators, Inc. CFITrainer.net <i>Ethical Duties Beyond the Fire Scene</i></p>	3 Hours
June 2017	<p>International Association of Arson Investigators, Inc. CFITrainer.net <i>Introduction to Youth-Set Fires</i></p>	3 Hours
June 2017	<p>International Association of Arson Investigators, Inc. CFITrainer.net</p>	

	<i>Legal Aspects of Investigating Youth-Set Fires</i>	3 Hours
June 2017	International Association of Arson Investigators, Inc. CFITrainer.net <i>Motor Vehicles: The Engine and Ignition, Electrical and Fuel Systems</i>	3 Hours
June 2017	International Association of Arson Investigators, Inc. CFITrainer.net <i>Motor Vehicles: Transmission, Exhaust, Brake and Accessory Systems</i>	3 Hours
June 2017	International Association of Arson Investigators, Inc. CFITrainer.net <i>Thermometry, Heat and, Heat Transfer</i>	3 Hours
June 2017	International Association of Arson Investigators, Inc. CFITrainer.net <i>Understanding the Fire Investigator's Job: A guide for Non-Investigators</i>	3 Hours
June 2017	International Association of Arson Investigators, Inc. CFITrainer.net <i>What the Insurance Professional Needs to Know about Fire Investigation</i>	3 Hours
July 2017	Collin County Fire Investigators Association, Inc. <i>Fairview, Texas</i> <i>Ethics</i>	2 Hours
August 2017	International Association of Arson Investigators, Inc. CFITrainer.net <i>Discovery in Criminal Cases</i>	3 Hours
September 2017	International Association of Arson Investigators, Inc. CFITrainer.net <i>Discovery in Civil Cases</i>	3 Hours
February 2018	International Association of Arson Investigators, Inc. CFITrainer.net <i>Fire Chemistry</i>	3 Hours
May 2018	International Association of Arson Investigators, Inc. <i>Frisco, Texas</i> <i>2018 Annual International Arson Investigator Training Conference</i>	32 Hours
December 2018	International Association of Arson Investigators, Inc. CFITrainer.net <i>Understanding Undetermined</i>	3 Hours

December 2018	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Fire Investigation for Fire Officers</i>	3 Hours
December 2018	Safety Unlimited, Inc. <i>Asbestos Awareness Training</i>	1 Hour
August 2019	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Critical Evaluation and Testing of Commonly Reported Accidental Causes</i>	3 Hours
August 2019	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Critical Evaluation and Testing of Commonly Reported Accidental Causes</i>	3 Hours
August 2019	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Charting Your Career Path in Fire Investigation</i>	3 Hours
August 2019	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Fire Flow Analysis</i>	3 Hours
August 2019	FM Global <i>Fire Service Learning Network</i> <i>Automatic Sprinkler System Design and Function</i>	1 Hour
August 2019	FM Global <i>Fire Service Learning Network</i> <i>Developing a Pre-Incident Plan for a Protected Building</i>	1 Hour
August 2019	FM Global <i>Fire Service Learning Network</i> <i>Engine Company Operations at Fires in Sprinklered Properties</i>	1 Hour
August 2019	FM Global <i>Fire Service Learning Network</i> <i>Why Sprinklered Buildings Burn</i>	1 Hour
August 2019	Collin County Fire Investigator Association <i>Collin County Community College</i> <i>“Profiling an Arsonist”</i>	8 Hours

March 2020	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Introduction to Appliances</i>	3 Hours
August 2020	Collin County Fire Investigator Association <i>Collin County Community College</i> <i>“When Lightning Strikes!”</i>	2 Hours
August 2020	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Preventing Occupational Exposures of Carcinogens at the Fire Scene</i>	3 Hours
October 2020	Actionable insights <i>Matterport Certification Training</i>	8 Hours
December 2020	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Emerging Technologies in Fire Investigation</i>	3 Hours
May 2021	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Lithium-Ion Battery Fires</i>	1 Hour
June 2021	American Wood Council <i>Webinar</i> <i>Wood Construction and the Fire Investigator</i>	1.5 Hours
January 2022	North Texas Fire Investigators’ Association <i>North Coppell, Texas</i> <i>Smart World. Smart Fires. (The Internet of Things, Electric Vehicles, Lithium Batteries)</i>	3 Hours
March 2022	International Association of Arson Investigators, Inc. <i>CFITrainer.net</i> <i>Alternative Fuel Vehicles</i>	3 Hours

PROFESSIONAL AFFILIATIONS

California Conference of Arson Investigators (CCAI)
Collin County Fire Investigators Association (CCFIA)

International Association of Fire Investigators (IAAI)
National Association of Fire Investigators (NAFI)
North Texas Fire Investigators Association (NTFIA)
Southern California Fire Investigation Regional Strike Team (FIRST)

PROFESSIONAL BACKGROUND

July 2010 to Present	Envista Forensics <i>Dallas, Texas</i> <i>Senior Consultant – Fire & Explosion Division</i>
June 2009 to July 2010	GSE Investigative Services, Inc. <i>Dallas, Texas</i> <i>Senior Investigator</i>
January 2007 to June 2009	Unified Investigations & Sciences, Inc. <i>Dallas, Texas / Los Angeles, California</i> <i>Senior Investigator</i>
October 2004 to January 2007	Crawford Investigation Services / MJM, Inc. <i>Los Angeles, California</i> <i>Fire Investigator</i>
January 2003 to October 2004	Engineering & Fire Investigations, Inc. <i>Corona, California</i> <i>Fire Investigator</i>
January 2001 to December 2002	Unified Investigations & Sciences, Inc. <i>Los Angeles, California</i> <i>Special Investigator</i>
October 1998 to January 2001	GSE Investigative Services, Inc. <i>Los Angeles, California</i> <i>Special Investigator</i>
August 1997 to June 2006	JMG Security Systems <i>Fountain Valley, California</i> <i>Fire & Burglary Intrusion Alarm Technician</i>
1999 to 2001	Gazelle Electric Company <i>Reseda, California</i> <i>Apprentice Electrician</i>
September 1996 to June 1997	Los Angeles Police Department <i>Los Angeles, California</i> <i>Police Officer</i>

May 1992 to
November 1998

United States Forest Service
San Fernando, California
Firefighter II / Investigator

1987 to 1992

Best Products, Inc.
Northridge, California
Investigator – Loss Prevention

REPRESENTATIVE PROJECT EXPERIENCE

May 2001

Southern California Adjusters Association
Van Nuys, California
Fire Origin & Cause

October 2002

GMAC Insurance Company
Ontario, California
Vehicle Fire Origin & Cause

October 2004

GMAC Insurance Company
Ontario, California
Vehicle Fire Origin & Cause

June 2005

Crawford & Company
Woodland Hills, California
Fire Origin & Cause

March 2006

Crawford & Company
Bakersfield, California
Fire Origin & Cause

March 2010

North Texas Fire Investigators Association
Farmers Branch, Texas
Alarm Systems and the Fire Investigator