
Duane T. Lemons | Fire Investigator, IAAI-CFI, NAFI-CFEI

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Professional Summary:

Mr. Lemons' background consists of education/technical training and 29 plus years of professional experience as a fire investigator and inspector. Mr. Lemons was a Fire Inspector II with the Carson City Fire Department. Mr. Lemons retired from Carson City Fire Department in 2012. Since his retirement Mr. Lemons has worked as a fire investigator for private investigative companies.

Before working in the fire service Mr. Lemons was an oilfield electrician, Oilfield welder and an Heating and Air Conditioning Technician. Mr. Lemons studied and received a certificate of technology in welding and Heating and Air Conditioning.

Mr. Lemons joined Warren Engine Company # 1 in Carson City Nevada, where he earned a certificate as a Fire Fighter I. Mr. Lemons was the training officer for the volunteer program from 1995 – 2000. Mr. Lemons oversaw the training of new volunteers as Fire Fighters. During this time frame Mr. Lemons was supervising live burn fire training, teaching fire behavior to the volunteer students. Mr. Lemons has also taught fire prevention and fire investigation classes throughout the state of Nevada. He has also taught and assisted in teaching Wildland Fire Investigation FI210 classes numerous times. Mr. Lemons has participated in over 100 live fire burns of structures, vehicles and wildland scenarios for training purposes.

Mr. Lemons has had the honor of assisting in scientific experiments on fire behavior. Including, incipient stage to flashover fire scenarios. Mr. Lemons has also participated in vehicle fire burns, and live bomb scenarios. During and after these fire and bomb scenarios he observed and photographed the fire behavior, fire patterns and blast effects adding to his experience in investigating these scenarios. Mr. Lemons also ignited, observed and photographed more than 90 wildland training fires.

Mr. Lemons has testified as an expert in Fire Cause and Origin, and Fire Code enforcement. He has investigated over 1,000 fires.

Licenses and Certifications:

International Association of Arson Investigators, Certified Fire Investigator 43-018

National Association of Fire Investigators, Certified Fire and Explosion Investigator #16215-8699

Nevada Private Investigators License # 644

Nevada State Fire Marshal, Fire Investigator III

Current Asbestos related worksite certification complete

Court Qualifications/ Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global, Senior Fire Investigator & Qualifying Agent, 2022 – Present
DTL Consulting and Investigations, Owner/Fire Investigator, Plans Examiner, 2000 – 2022
Fire Cause Analysis, Fire Investigator & Qualifying Agent, 2015-2019
Terry Taylor Investigations, Fire Investigator, 2013 – 2018
Carson City Fire Department, Fire Inspector II, 2001 – 2012
Carson City Fire Department, Fire Inspector I, 1996 – 2001
Warren Engine Company # 1, Training Officer and Fire Fighter, 1995 – 1999
Carson City Building and Safety Division, Building Inspector, 1995 – 1996
Firemaster, Life Safety Technician, 1994 – 1995
Carson City Fire Department, Fire Inspector Intern, 1994 – 1995
City of Reno, Maintenance Worker II, 1991 – 1993
State of Nevada, Heating and Air Conditioning Technician, 1989 – 1991
OK Refrigeration, Heating and Air Conditioning Technician, 1988 – 1989
Permian General Hospital, Building Maintenance Engineer, 1985 – 1988
Tomaco Industries, Salesman, 1985 – 1985
Lemons Heating and Air Conditioning, Owner & HVAC Technician, 1984 – 1985
Duane T. Lemons Welding, Owner and Weldor, 1981 – 1985
J T Enterprises, Weldor, 1980 – 1981
Various Construction Companies, Laborer, 1978 - 1979

Specialized Education:

National Fire Academy

Fire/Arson Investigation – 1997, Tested
Fire Inspection Principles – 1999, Tested
Fire Protection: Structures and Systems – 2001, Tested
Community Risk Issues and Intervention – 2003
Emergency Response to Terrorism – 1997
Presenting Effective Public Education Programs – 1994
Electrical Aspects of Fire Investigations – 2010 Tested
Commissioning New Occupancies – 2013
Residential Sprinkler Plan Review – 2012

California State Fire Marshals

Fire Prevention 1-A - 1994, Tested
Fire Prevention 1-B - 1994, Tested
Fire Investigation 1-A - 1997, Tested
Fire Investigation 1-B - 1997, Tested

California Division of Forestry

Wildland Fire Investigation – 1997

Nevada State Fire Marshals

Fire Prevention Officer I – 1994, Tested
Hazardous Materials Team Member – 1994, Tested
Fire Service Instructor II – 1998, Tested
Incident Safety Officer – 1997, Tested
Basic Wildland Firefighting – 1996, Tested
Nevada Fire Investigator III
Fire Inspector I – 2013 Tested

Fire Inspector II – 2013 Tested
Fire Inspector III – 2013 Tested
Plans Examiner – 2013 Tested
Nevada Division of Forestry
P-151 Wildfire Origin and Cause Determination – 2001
Wildland Arson Investigation – 2000
International Association of Arson Investigators
NFPA 921 Sword and Shield – 1996, Tested
New Directions in Arson Investigation – 1997, Tested
Advanced Fire Investigation – 1998, Tested
Investigation of Electrical Appliance Fires - 1999, Tested
Advanced Fire Investigation – 2002, Tested
Advanced Fire Investigation – 2003, Tested
Natural Gas Related Fires-2004, Tested
Advanced Fire Investigation – 2004, Tested
Advanced Fire Investigation – 2006, Tested
Advanced Fire Investigation – 2007, Tested
Advanced Fire Investigation – 2008, Tested
Youth Set Fire Investigation – 2008, Tested
Basic fire Investigation Train the Trainer – 2009, Tested
Understanding Fire Through Candles Experiments-2009, Tested
Fire Investigator Scene Safety- 2009, Tested
Arc Mapping Basics- 2010, Tested
Documenting the Event- 2010, Tested
Uses of Natural Gas & Propane-2010, Tested
Electrical Safety- November 2010, Tested
Motive, Means, and Opportunity, August 2011 Tested
Introduction to Fire Dynamics and Modeling, September 2011, Tested
Evidence Collection Technician Certificate # 158, April 2014 Tested
2014 IAAI ITC General Session Examination – June, 2014 – Tested
Physical Evidence at the Fire Scene – January, 2014 – Tested
Introduction to Evidence – January, 2014 – Tested
Ethics and the Fire Investigator – February, 2014 – Tested
DNA – February, 2014 – Tested
NFPA 1033 and Your Career – February, 2014 – Tested
Evidence Examination: What Happens at the Lab? – February, 2014 – Tested
The Practical Application of the Relationship Between NFPA 1033 & 921 – February, 2014 – Tested
The Scientific Method for Fire and Explosion Investigation – February, 2014 – Tested
Basic Electricity – March, 2014 – Tested
Fatal Fire Investigations – September, 2014 – Tested
NV Electrical Fire Seminar- March, 2018 – Tested
NFPA 1033 & 921: 2022/2021 Editions Important Updates- December, 2022 – Tested
Fire Protection Systems – December, 2022 – Tested
Investigating Fatal Fires – December, 2022 – Tested
Digital Photography and the Fire Investigator – March 2023- Tested
International Fire Code Institute
Uniform Fire Code Inspector # 0875309-65 – 1994, 1997, 2000, 2003, 2006, 2009 Tested
Applications of the UBC for Fire Code Enforcement Personnel – 1994
Overview of the Uniform Fire Code – 1994
Inspection of Fire Sprinkler Systems – 1994

International Conference of Building Officials

Building Plans Examiner # 0875309-60 – 2000, 2003 & 2006, 2009, Tested

UBC/UFC Plans Review and Inspection – 1994, Tested

1994 UBC Nonstructural Update – 1995

1994 Uniform Mechanical Code Update

International Code Council

Building Plans Examiner #0875309-66– 2003, 2006, 2009, Tested

Fire Inspector II #0875309-67 – 2003, 2006, 2009, Tested

Fire Plans Examiner #0875309-F3, 2003, 2006 & 2009, Tested

American Fire Sprinkler Association

NFPA 13 Installation of Sprinkler Systems – 1997

Plan Review for Fire Sprinkler & Standpipe Systems – 1997

Hydraulic Calculation Seminar – 1997

NFPA 25 Maintenance and Testing of Fire Sprinkler Systems – 1997

National Wildfire Coordinating Group

S- 190 Introduction to Wildland Fire Behavior

FI-210 Wildland Fire Investigation, Tested

FI-210 Wildland Fire Investigation Instructor 2009

FI-210 Wildland Fire Investigation Instructor 2011

FI-210 Wildland Fire Investigation Instructor 2013

FI-210 Wildland Fire Investigation Instructor, May 2018

FI-210 Wildland Fire Investigation Instructor, May, 2019

National Fire Prevention Association

Water Supply Analysis and Hydraulic Calculations 2013

National Fire Sprinkler Association, Inc.

Sprinkler Protection for Storage Occupancies – 1998

Pumps for Fire Protection – 1998

Argus Pacific Training

Asbestos Awareness and Lead Awareness 3 hours – 2016

Terracon

Asbestos Awareness, August, 2018

Lead Awareness, August 2018

Fire Prevention Association of Nevada

Overview of NFPA 750: Water Mist Fire Suppression Systems – June, 2013

Lee S. Cole & Associates, Inc.

Investigation of Vehicle Fires – 2002

Regional Public Safety Training Center

Evidence collection & Packaging at Arson & Bombing Scenes-2009, Tested

Advanced Post Blast Analysis and Investigation

National Board on Fire Service Professional Qualifications

Fire Investigator-2009

Fire Investigator – 2014

National Association of Fire Investigators

Certified Fire and Explosion Investigator # 16215-8699, Tested

Nevada Private Investigator's Board

Private Investigator License #2127

Qualifying Agent Private Investigator License # 644 for EFI Global State of Nevada

Education:

Participation in Associates of Applied Science Degree/Fire Science, Western Nevada Community College, Carson City, Nevada

Participation in Heating and Air Conditioning Curriculum and Fire Science Classes, Truckee Meadows Community College, Reno, Nevada

Certificate of Technology, Heating and Air Conditioning, Odessa College, Odessa, Texas

Certificate of Technology, Welding, Odessa Trade School, Odessa, Texas

Affiliations:

International Association of Arson Investigators
Nevada Chapter # 43, International Association of Arson Investigators
International Association of Fire Fighters - Retired
International Fire Code Institute – Changed
International Conference of Building Officials
International Code Council

Courses Instructed/ Guest Lecturer:

Fire Prevention for First Responders and Small Departments
Arson Detection for First Responders
Basic Fire Investigation
FI-210 Wildland Fire Investigation
High Piled Combustible Storage
Hazardous Materials
Fire Fighter I