



CURRICULUM VITAE

Matthew J. Wilke, CFI

EMPLOYMENT HISTORY

- 11/2013 to present Fire Investigator with Fire Cause Analysis
Duties - Fire investigator responsible for conducting fire and explosion investigations to determine the origin and cause.
- 2008 to present Captain-Bismarck Fire Department – Fire Investigation Training
Duties - Responsible for setting up and conducting quarterly training for department investigation team. Responsible for conducting fire/explosion investigations and moderating case studies within the department.
- 2001 to present Captain Bismarck Fire Department
Duties – Complete and direct Fire Safety Inspections for a fire company and complete fire investigations assigned to our shift including scene examination and report writing to determine origin and cause.
- 2000 to present Bismarck Fire Department Investigation team
Duties – Fire investigator responsible for conducting fire and explosion investigations to determine origin and cause
- 1996 to 2001 Bismarck Fire Department
Firefighter

FIRE TRAINING RELATING TO FIRE INVESTIGATIONS

EDUCATION

Bureau of Alcohol, Tobacco, Firearms and Explosives:

12/5/16 - 12/16/16 Advanced Origin & Cause/Courtroom Testimony – 76 tested hours

OFFICES:

California
Arizona
Nevada
Oregon
Washington
N. Dakota

CORPORATE OFFICE:

935 PARDEE
BERKELEY, CA
94710-2623 USA
800.726.5939
www.fcafire.com

North Dakota IAAI Annual Investigative Conference:

- 2015 17th Annual Fire Investigative Conference NDIAAI – 20 tested hours
Scene Fire Behavior & Dynamics/Residential Electrical & Gas Systems.
Crude by Rail/Fatal Fires
- 2014 16th Annual Fire Investigative Conference NDIAAI – 20 tested hours
Scene Complex Arson Investigation/Effects of Multiple Ventilation openings-
Post Flashover Compartment Fires/Fire Dynamics
- 2012 14th Annual Fire Investigative Conference NDIAAI – 20 tested hours
Scene Documentation, conducting interviews, building construction
- 2011 13th Annual Fire Investigative Conference NDIAAI – 20 tested hours
Advanced Fire Investigation Techniques
- 2009 11th Annual Fire Investigative Conference NDIAAI - 20 tested hours
Advanced Fire Investigation Techniques
- 2008 10th Annual Fire Investigative Conference NDIAAI – 20 tested hours
Basic Fire Investigation Techniques
- 2007 9th Annual Fire Investigative Conference NDIAAI – 20 tested hours
Courtroom Testimony
- 2006 8th Annual Fire Investigative Conference NDIAAI - 20 tested hours
Vehicle Fire Investigative Techniques
- 2003 5th Annual Fire Investigative Conference NDIAAI – 20 tested hours
Fire Investigation Techniques
- 2001 3rd Annual Fire Investigative Conference NDIAAI – 20 tested hours
Fire Investigation Techniques

CFI Trainer.net:

Analysis of Station Nightclub Fire - Arc Mapping Basics - Basic Electricity - Building Structures Ventilation – Candle Experiments – Charleston Sofa Super Store Fire – Complex Fire Scene Investigations - Candle Experiments – Charleston Sofa Super Store – Complex Fire Scene Investigations – Digital Photography & the Fire Investigator – The Deposition Parts 1 & 2 – Documenting the Event – Effective Investigation & Testimony - Electrical Safety – Ethics and the Fire Investigator – Explosion Dynamics – Fatal Fires – Fire & Explosion Investigations: Utilizing NFPA 1033 & 921 – Fire Investigator Scene Safety – How First Responders Impact the Fire Investigation – Insurance and the Fire Investigation – Intro to Evidence – Intro to Fire Dynamics and Modeling – Investigating Motor Vehicle Fires – MagneTek: A Case Study in the Daubert Challenge – Physical Evidence at the Fire Scene – Post Flashover Fires – Report Writing – Residential Building Construction – Residential Electrical Systems – Residential Natural Gas Systems – Scientific Method for Fire and Explosions Investigation – Search & Seizure – The Fire Investigator & the 2011 NFPA 921 Changes – Using Resources to Validate your Hypothesis – Vacant and Abandoned Buildings; Hazards & Solutions – Writing the Initial Cause & Origin Report – Vacant and Abandoned Buildings: Hazards & Solutions

Other:

- 9/26/16 Asbestos and Lead Awareness – Argus Pacific
2/2014 Basic Electricity and the Fire Scene by Hal Lyson and John White / FCA
9/16/11 Identifying the Source & Fire Debris Analysis – From the Laboratory to the Final Report - Armstrong Forensic Laboratory, Inc.
2/22/97 Arson Detection for the First Responder
1985-1989 Bachelor's Degree in Communications – University of Mary

INSTRUCTOR EXPERIENCE

- 9/11/15 Presented 8 hours at the NDIAAI Conference – Fire Dynamics
10/7/14 Presented “Live Training Burn” workshop with live burn & discussion on fire development, fire patterns and determining the cause
2008 Responsible for setting up and conducting quarterly training for department investigation team. Responsible for conducting fire/explosion investigations and moderating case studies within the department.

PROFESSIONAL EXPERIENCE

- 11/2013 Lead investigator with Fire Cause Analysis conducting fire investigations at fire scenes. This includes site examination, interviews, scene documentation, scene reconstruction and written or oral reports to the clients.
- 2014 Successfully renewed the International Association of Arson Investigators Certified Fire Investigator (CFI)
- 2009 Successfully tested and passed the International Association of Arson Investigators examination to become Certified Fire Investigator (CFI)
- 2001 Promoted to Fire Captain with Bismarck Fire Department
- 2000 to present I have been the lead investigator and written the investigation reports involving accidental, natural, incendiary, and undetermined fires. I have also been involved with SOGs, assisting investigations and technical review of fire reports with the Bismarck Fire Department.
- 1998 to 2000 Tested to Firefighter 1 & Firefighter 2 certification (North Dakota State Fire Association)
- 1999 Department of Labor Certified Fire Medic

PROFESSIONAL ASSOCIATIONS

3/1/2017 State of Montana Licensed Private Investigator
2002 to present International Association Arson Investigators member
2001 to present ND International Association Arson Investigators member

COURTROOM TESTIMONY AND CASES

12/16 ATF Advanced Origin & Cause/Courtroom Testimony
2/15/15 ND US Federal Court vs Anthony DeGroot – O & C Expert
9/07 NDIAAI Courtroom Testimony class
6/18/09 State of North Dakota vs Lawrence Bailey
 Filed: Arson – pled guilty to Criminal Mischief

Compliance with NFPA 1033 Chapter 1 – This chapter identifies the minimum job performance requirements for fire investigators. More specifically section 1.3.7 details what the fire investigator must maintain at a minimum and up-to-date basic knowledge of the following topics beyond a high school level. They fall into 16 categories and they may be maintained by attending formal education courses, workshops and seminars and/or through professional publications and journals. The categories are listed below and are supported by the applicable training that corresponds with each competency. This list is not all inclusive and will not reference all courses that may have provided instruction on a variety of NFPA 1033 related topics simultaneously.

1. Fire Science
 - 12/8/16 – ATFAOCCT Fire Chemistry/Fire Scene Forensics 1 hour
 - 12/5/16 ATFAOCCT Fire Dynamics – 1 hour
 - 9/16/11 – Fire Debris Analysis – Armstrong – 1 hour
 - 9/14/11 – ND-IAAI ATC – Post flashover fires – 8 hours.
2. Fire Chemistry
 - 12/12/16 – ATFAOCCT Fatal Fire Investigations – 1 hour
 - 12/8/16 – ATFAOCCT Fire Chemistry/Fire Scene Forensics 2 hours
 - 12/5/16 ATFAOCCT Fire Dynamics – 1 hour
 - 9/9/15 – ND-IAAI ATC – 2 hours
 - 5/7/15 – CFI – Post Flashover Fires – 1 hour
 - 5/24/10 – CFI – Physical Evidence – 1 hour
 - 1/23/09 – CFI – Fire through Candle Experiments – 2 hours
 - 11/23/06 – CFI – Station Night Club Fire – 1 hour
3. Thermodynamics
 - 12/5/16 ATFAOCCT Fire Dynamics – 1 hour
 - 9/9/15 – ND-IAAI ATC – 1 hour
 - 5/7/15 – CFI – Post Flashover Fires – 2 hours
 - 5/8/11 – CFI – Sofa Super Store Fire – 1 hour
 - 12/8/10 – CFI – Explosion Dynamics – 1 hour
 - 8/30/08 – CFI – Ventilation & Fire Investigation – 2 hours
 - 11/23/06 – CFI – Station Night Club Fire – 1 hour
4. Thermometry
 - 9/9/15 – ND-IAAI ATC – 1 hour
5. Fire Dynamics
 - 12/5/16 ATFAOCCT Fire Dynamics – 7 hours
 - 10/15/16 Fire & Arson Mag; Fire Origin Pattern Persistence – 1 hour
 - 9/9/15 – ND-IAAI ATC – 8 hours
 - 5/7/15 – CFI – Post Flashover Fires – 1 hour
 - 10/7/14 – FCA Live Fire Training – 5 hours
 - 9/14/11 – ND-IAAI ATF – above floor level fires – 4 hours

- 5/8/11 – CFI – Sofa Super Store Fire – 2 hours
 - 2/8/10 – CFI – Explosion Dynamics – 1 hour
 - 5/24/10 – CFI – Physical Evidence – 2 hours
 - 1/23/09 – CFI – Fire through Candle Experiments – 2 hours
 - 11/23/06 – CFI – Intro to Fire Dynamics & Modeling – 2 hours
 - 11/23/06 – CFI – Station Night Club Fire – 1 hour
 - 8/23/06 – ND-IAAI ATC – Car Fires – 20 hours
- 6. Explosion Dynamics**
- 12/12/16 – ATFAOCCT Fuel Air Explosions with Demo – 3 hours
 - 2/8/10 – CFI – Explosion Dynamics – 2 hours
 - 7/5/09 – CFI – Fire & Explosion; utilize 1033/921 – 2 hours
- 7. Computer Fire Modeling**
- 12/12/16 – ATFAOCCT Fuel Air Explosions with Demo – 1 hour
 - 7/20/16 – NDIAAI Fire Modeling 2016 – 2 hours
 - 11/23/06 – CFI – Intro to Fire Dynamics & Modeling – 2 hours
 - 11/23/06 – CFI – Station Night Club Fire – 1 hour
- 8. Fire Investigation**
- 12/9/16 – ATFAOCCT Mock Trial – 4 hours
 - 12/9/16 – ATFAOCCT Complex Scene Practical – 2 hours
 - 12/6/16 – ATFAOCCT Complex Scene Walk Through/Demo – 2 hours
 - 9/17/14 – ND-IAAI ATC – 3.5 hours
 - 8/25/14 – FCA – 2 hours
 - 11/24/13 – CFI - Ethics & Fire investigator – 3 hours
 - 12/24/12 – CFI - 2011 921 Changes – 4 hours
 - 9/19/12 – ND-IAAI ATC – Documenting Scene 4 hours
 - 9/14/11 – ND-IAAI ATC – 921/1033 Changes – 4 hours
 - 5/8/11 – CFI – Sofa Super Store Fire – 1 hour
 - 4/21/11 – CFI – First Responder & Investigation – 2 hours
 - 8/19/09 – ND-IAAI ATC – Appliance Fires – 4 hours
 - 8/30/08 – CFI – Ventilation & Fire Investigation – 2 hours
 - 8/20/08 – ND-IAAI ATC – Basic Fire Investigation – 20 hours
 - 2/12/07 – CFI – Motor Vehicle Fires – 4 hours
 - 8/27/03 – ND-IAAI ATC – Fire Investigation – 8 hours
 - 8/22/01 – ND-IAAI ATC – Fire Investigation – 8 hours
 - 2/20/00 – Arson Detection for the 1st Responder – 4 hours
- 9. Fire Analysis**
- 12/9/16 – ATFAOCCT Review of Burns – 1.5 hours
 - 12/9/16 – ATFAOCCT Prosecutor Relations – 3 hours
 - 12/14/16 – ATFAOCCT Surviving the Defense Expert Challenge – 1 hour
 - 12/13/16 – ATFAOCCT Facing the Defense Expert Challenge – 4 hours
 - 12/13/16 – ATFAOCCT Current Case Law & NFPA 1033/921 – 4 hours

- 12/9/16 – ATFAOCCT Complex Scene Practical – 2 hours
 6/8/16 – CFI – Effective Investigation & Testimony – 3 hours
 9/17/14 – ND-IAAI ATC – 2.5
 2/18/13 – CFI – Critical Thinking Solves Cases – 2 hours
 7/8/08 - CFI – Fatal Fires – 4 hours
- 10. Fire Investigation Methodology**
 12/9/16 – ATFAOCCT Complex Scene Practical – 1 hour
 2/18/13 – CFI - Magnetek/Daubert – 2 hours
 1/18/13 – CFI - Validating Hypothesis – 2 hours
 7/5/09 – CFI - Fire & Explosion-utilize 1033/921 – 2 hours
 9/1/08 – CFI - Complex Fire Scene – 4 hours
 7/20/07 – CFI - Scientific Method – 3 hours
 8/27/03 – ND-IAAI ATC – Fire investigation – 8 hours
 8/22/01 – ND-IAAI ATC – Fire investigation – 8 hours
- 11. Fire Investigation Technology**
 9/17/14 – ND-IAAI ATC – 2 years
 2/20/12 - CFI – Insurance & the Fire Investigator – 4 hours
 9/14/11 – ND-IAAI ATC – Forensic Eval of Lubricants – 4 hours
 12/13/09 – CFI – Digital Photography – 4 hours
- 12. Hazardous Materials**
 9/17/14 – ND-IAAI ATC – 1
 9/19/12 – ND-IAAI ATC – Safety/Hazmat – 4 hours
 6/15/09 – CFI – Vacant/Abandon Buildings – 4 hours
 7/7/06 – CFI – Scene Safety – 3 hours
- 13. Failure Analysis and Analytical Tools**
 12/12/16 – ATFAOCCT Fatal Fire Investigations – 1 hour
 12/9/16 – ATFAOCCT Complex Scene Practical – 1 hour
 3/19/14 – CFI – Basic Electricity – 1 hour
 2/18/13 – CFI – Critical Thinking Solves Cases – 2 hours
- 14. Fire Protection Systems**
 12/12/16 – ATFAOCCT Building Construction – 2 hours
 12/6/16 - ATFAOCCT Fire Protection Systems – 4 hours
 12/21/14 – CFI – Residential Building Construction – 3 hours
 9/19/12 – ND-IAAI ATC – Building Const – 4 hours
 10/22/04 – IFC transition from 1997 - .6 hours
- 15. Evidence Documentation, Collection and Preservation**
 12/9/16 – ATFAOCCT CV/Resume 1 hour
 12/9/16 – ATFAOCCT Complex Scene Practical – 1 hour
 12/8/16 – ATFAOCCT Fire Chemistry/Fire Scene Forensics 1 hour

12/6/16 – ATFAOCCT Report Writing – 2 hours
10/19/16 - Accelerant K-9 2 hours
9/10/15 – ND-IAAI ATC – 4 hours
9/19/12 – ND-IAAI ATC – Interviewing 4 hours
9/19/12 – ND-IAAI ATC – Report Writing 4 hours
4/16/12 – CFI – Search & Seizure – 4 hours
10/16/11 – Armstrong - Identifying the Source – 1.5 hours
5/24/10 – CFI – Physical Evidence – 1 hour
12/13/09 – CFI – Documenting the Event – 4 hours
8/19/09 – ND-IAAI ATC – Documenting the Scene – 4 hours
8/19/09 – ND-IAAI ATC – Report Writing – 4 hours
8/19/09 – ND-IAAI ATC – Evidence Collection – 4 hours
8/19/09 – ND-IAAI ATC – Interviewing – 4 hours
11/9/07 – CFI – Intro to Evidence – 4 hours
8/22/07 – ND-IAAI ATF – IAAI Courtroom Testimony – 20 hours

16. Electricity and Electrical Systems

12/8/16 – ATFAOCCT Appliance Fires with Demo – 4 hours
12/7/16 - ATFAOCCT Electrical Aspects of Fire Scenes with Lab – 4 hours
9/10/15 – ND-IAAI ATC – 4 hours
6/14/15 – CFI – Residential Electrical – 4 hours
9/17/14 – ND-IAAI ATC – 4 hours
3/19/14 – CFI – Basic Electricity – 1 hour
2/11/14 – Electric Car Fires - .2 hours
11/22/10 – CFI – Electrical Safety – 3 hours
9/29/10 – CFI – Arc Mapping – 4 hours