

Matthew J. Wilke, CFI

PO Box 303

Bismarck, ND 58502-0303

701-226-7501 – email matt.wilke@fcfire.com

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 Firefighter Bismarck Fire Department

FIRE RELATED TRAINING RELATING TO FIRE INVESTIGATIONS:

EDUCATION:

Bureau of Alcohol, Tobacco, Firearms and Explosives:

12/05/16 - 12/16/16 Advanced Origin & Cause/Courtroom Testimony – 76 tested hours

North Dakota IAAI Annual Investigative Conference

- 2018 20th Annual Fire Investigative Conference ND-IAAI - 20 testest hrs
Camera and Lighting Techniques for Fire Scenes; Strategic Social Media Exploitation for Fire Investigations; Fire Origin Pattern Persistence; Electrical Failure Analysis-Arc Melting Identification/Portable Space Heaters
- 2017 19th Annual Fire Investigative Conference ND-IAAI - 20 tested hrs
2017 921 changes/updates; Accelerant Detection Dog; Application and Use of NFPA 912; Explosion Dynamics
- 2015 17th Annual Fire Investigative Conference ND-IAAI – 20 tested hrs Scene
Fire Behavior & Dynamics/Residential Electrical & Gas Systems
Crude by Rail/Fatal Fires

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- 2014 16th Annual Fire Investigative Conference ND-IAAI – 20 tested hrs Scene Complex Arson Investigation/Effects of Multiple Ventilation openings- Post Flashover Compartment Fires/Fire Dynamics
- 2012 14th Annual Fire Investigative Conference ND-IAAI – 20 tested hrs Scene Documentation, conducting interviews, building construction
- 2011 13th Annual Fire Investigative Conference ND-IAAI – 20 tested hrs Advanced Fire Investigation Techniques
- 2009 11th Annual Fire Investigative Conference ND-IAAI - 20 tested hrs Advanced Fire Investigation Techniques
- 2008 10th Annual Fire Investigative Conference ND-IAAI – 20 tested hrs Basic Fire Investigation Techniques
- 2007 9th Annual Fire Investigative Conference ND-IAAI – 20 tested hrs Courtroom Testimony
- 2006 8th Annual Fire Investigative Conference ND-IAAI - 20 tested hrs Vehicle Fire Investigative Techniques
- 2003 5th Annual Fire Investigative Conference ND-IAAI – 20 tested hrs Fire Investigation Techniques
- 2001 3rd Annual Fire Investigative Conference ND-IAAI – 20 tested hrs Fire Investigation Techniques

CFI Trainer.net

Analysis of Station Nightclub Fire - Arc Mapping Basics - Basic Electricity - Charleston Sofa Super Store Fire – Critical Thinking Solves Cases - Digital Photography & the Fire Investigator – DNA - Documenting the Event - Effective Investigation & Testimony - Electrical Safety – Ethics and the Fire Investigator – Ethics & Social Media - Evidence Examination: What Happens at the Lab? - Explosion Dynamics – Fire & Explosion Investigations: Utilizing NFPA 1033 & 921 – Fire Investigator Scene Safety – Fundamentals of Residential Building Construction - How First Responders Impact the Fire Investigation – Insurance and the Fire Investigation – Intro to Evidence – Intro to Fire Dynamics and Modeling – Intro to Fatal Fires - Investigating Motor Vehicle Fires – Investigating Natural Gas Systems - MagneTek: A Case Study in the Daubert Challenge – Managing Complex Fire Scene Investigations - Physical Evidence at the Fire Scene – Post Flashover Fires – Process of Elimination - Residential Electrical Systems – Residential Natural Gas Systems - Search & Seizure - The Deposition part 1: Format, Content, and Preparation - The Deposition part 2: Questioning Tactics and Effective Responses The fire Investigator & the 2011 NFPA 921 Changes – The Impact of Ventilation in Building Structures on Fire Development - The Scientific Method for Fire & Explosion Investigation - Understanding Fire Through the Candle Experiments - Using Resources to Validate your Hypothesis – Vacant and Abandoned Buildings; Hazards & Solutions – Writing the Initial Cause & Origin Report

Other:

- 8/21/18 Lead & Asbestos Awareness - 4 hrs - Terracon Consultants
- 07/19/17 ND IAAI Chapter training - UL Listing

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04/04/17 FCA Training-NFPA updates; West Texas Explosion; Electric Field Notes
09/26/16 Asbestos and Lead Awareness – Argus Pacific
07/20/16 ND IAAI Chapter training - Fire Modeling (2 hrs)
02-2014 Basic Electricity and the Fire Scene by Hal Lyson and John White / FCA
09/16/11 Identifying the Source & Fire Debris Analysis – From the Laboratory to the Final Report - Armstrong Forensic Laboratory, Inc.
02/22/97 Arson Detection for the First Responder
1985-1989 Bachelor Degree in Communications – University of Mary

INSTRUCTOR EXPERIENCE:

09/20/17 Presented 4 hrs at ND-IAAI Conf. - Application and Use of NFPA 921
09/11/15 Presented 8 hrs at ND-IAAI Conference – Fire Dynamics
10/07/14 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 INCLUDE:

3/1/2017 State of Montana Licensed Private Investigator

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2002 to present International Association Arson Investigators member
2001 to present ND International Association Arson Investigators member

COURTROOM TESTIMONY AND CASES:

4/24/18 State of ND vs Gregory Leingang (O&C) (08-2017-CR-2899)
Filed: Arson - pled guilty to Arson

4/17/17 State of ND vs Tanner Wold (O&C) (08-2018-CR-2186)
Filed: Endangerment by Fire-pled guilty to Endangerment by Fire

12/16 ATF Advanced Origin & Cause/Courtroom Testimony

2/15/15 ND US Federal Court - USA vs Anthony DeGroot - 1:14-cr-00191
Testified as O&C Expert

9/07 NDIAAI Courtroom Testimony class

6/18/09 State of ND vs Lawrence Bailey (O&C) (08-07-K-00770)
Filed: Arson – pled guilty to Criminal Mischief

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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

- 02/01/18 - CFI - Investigating Natural Gas Systems - 3 hrs
- 12/08/16 - ATF-AOCCT - Fire Chemistry/Fire Scene Forensics 1 hr
- 12/05/16 - ATF-AOCCT - Fire Dynamics – 1 hr
- 09/16/11 - Fire Debris Analysis – Armstrong – 1 hr
- 09/14/11 - ND-IAAI ATC – Post flashover fires – 8 hrs.

2. Fire Chemistry

- 02/01/18 - CFI - Investigating Natural Gas Systems - 3 hrs
- 04/19/17 - ND-IAAI Quarterly training - Butane Hash Oil Investigations 1 hr
- 12/12/16 - ATF-AOCCT - Fatal Fire Investigations – 1 hr
- 12/08/16 - ATF-AOCCT - Fire Chemistry/Fire Scene Forensics 2 hrs
- 12/05/16 - ATF-AOCCT - Fire Dynamics – 1 hr
- 09/09/15 - ND-IAAI ATC – 2 hrs
- 05/07/15 - CFI – Post flashover fires – 1 hr
- 05/24/10 - CFI – Physical Evidence – 1 hr
- 01/23/09 - CFI – Fire thru candle experiments – 2 hrs
- 11/23/06 - CFI – Station Nightclub fire – 1 hr

3. Thermodynamics

- 12/05/16 - ATF-AOCCT - Fire Dynamics – 1 hr
- 09/09/15 - ND-IAAI ATC – 1 hr
- 05/07/15 - CFI – Post flashover fires – 2 hrs
- 05/08/11 - CFI – Sofa Super Store Fire – 1 hr
- 12/08/10 - CFI – Explosion Dynamics – 1 hr
- 08/30/08 - CFI – Ventilation & fire investigation – 2 hrs
- 11/23/06 - CFI – Station Nightclub fire – 1 hr

4. Thermometry

- 09/09/15 - ND-IAAI ATC – 1 hr

5. Fire Dynamics

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- 09/20/18 - ND-IAAI ATC - Fire Origin Pattern Persistence - 8 hrs
 - 02/01/18 - CFI - Investigating Natural Gas Systems - 3 hrs
 - 12/05/16 - ATF-AOCCT - Fire Dynamics – 7 hrs
 - 10/15/16 - Fire & Arson Mag; Fire origin pattern persistence – 1 hr
 - 09/09/15 - ND-IAAI ATC – 8 hrs
 - 05/07/15 - CFI – Post flashover fires – 1 hr
 - 10/07/14 - FCA live fire training – 5 hrs
 - 09/14/11 - ND-IAAI ATF – above floor level fires – 4 hrs
 - 05/08/11 - CFI – Sofa Super Store Fire – 2 hr
 - 02/08/10 - CFI – Explosion Dynamics – 1 hr
 - 05/24/10 - CFI – Physical Evidence – 2 hrs
 - 01/23/09 - CFI – Fire thru Candle Experiments – 2 hrs
 - 11/23/06 - CFI – Intro to Fire Dynamics & Modeling – 2 hrs
 - 11/23/06 - CFI – Station Nightclub fire – 1 hr
 - 08/23/06 - ND-IAAI ATC – car fires – 20 hrs
- 6. Explosion Dynamics**
- 02/01/18 - CFI - Investigating Natural Gas Systems - 3 hrs
 - 09/21/17 - ND-IAAI ATC - Explosion Dynamics Scott Davis - 8 hrs
 - 04/19/17 - ND-IAAI Quarterly training - Butane Hash Oil Investigations 1 hr
 - 04/04/17 - FCA - West Texas Explosion
 - 12/12/16 - ATF-AOCCT - Fuel Air Explosions with Demo – 3 hrs
 - 02/08/10 - CFI – Explosion Dynamics – 2 hr
 - 07/05/09 - CFI – Fire & Explosion; utilize 1033/921 – 2 hrs
- 7. Computer Fire Modeling**
- 09/20/18 - ND-IAAI ATC - Fire Origin Pattern Persistence - 8 hrs
 - 12/12/16 - ATF-AOCCT - Fuel Air Explosions with Demo – 1 hr
 - 07/20/16 - ND-IAAI Fire Modeling 2016 – 2 hrs
 - 11/23/06 - CFI – Intro to Fire Dynamics & Modeling – 2 hrs
 - 11/23/06 - CFI – Station Nightclub fire – 1 hr
- 8. Fire Investigation**
- 09/20/18 - ND-IAAI ATC - Fire Origin Pattern Persistence - 8 hrs
 - 02/01/18 - CFI - Investigating Natural Gas Systems - 3 hrs
 - 02/01/18 - CFI - Ethics & Social Media - 1 hr
 - 09/20/17 - ND-IAAI ATC - NFPA 921 Application & Use - 4 hrs
 - 12/09/16 - ATF-AOCCT - Mock Trial – 4 hrs
 - 12/09/16 - ATF-AOCCT - Complex Scene Practical – 2 hrs
 - 12/06/16 - ATF-AOCCT - Complex Scene Walk Through/Demo – 2 hrs
 - 07/08/16 - CFI - Effective Investigation & Testimony - 3 hrs

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- 09/17/14 - ND-IAAI ATC – 3.5 hrs
 - 08/25/14 - FCA – 2 hrs
 - 11/24/13 - CFI - Ethics & Fire investigator – 3 hrs
 - 12/24/12 - CFI - 2011 921 Changes – 4 hrs
 - 09/19/12 - ND-IAAI ATC – Documenting scene 4 hrs
 - 09/14/11 - ND-IAAI ATC – 921/1033 changes – 4 hrs
 - 05/08/11 - CFI – Sofa Super Store Fire – 1 hr
 - 04/21/11 - CFI – First Responder & Investigation – 2 hrs
 - 08/19/09 - ND-IAAI ATC – Appliance fires – 4 hrs
 - 08/30/08 - CFI – Ventilation & Fire Investigation – 2 hrs
 - 08/20/08 - ND-IAAI ATC – Basic Fire Investigation – 20 hrs
 - 02/12/07 - CFI – Motor Vehicle Fires – 4 hrs
 - 08/27/03 - ND-IAAI ATC – Fire investigation – 8 hrs
 - 08/22/01 - ND-IAAI ATC – Fire investigation – 8 hrs
 - 02/20/00 - Arson Detection for the 1st Responder – 4 hrs
- 9. Fire Analysis**
- 09/20/18 - ND-IAAI ATC - Fire Origin Pattern Persistence - 8 hrs
 - 12/09/16 - ATF-AOCCT - Review of Burns – 1.5 hrs
 - 12/09/16 - ATF-AOCCT - Prosecutor Relations – 3 hrs
 - 12/14/16 - ATF-AOCCT - Surviving the Defense Expert Challenge – 1 hr
 - 12/13/16 - ATF-AOCCT - Facing the Defense Expert Challenge – 4 hrs
 - 12/13/16 - ATF-AOCCT - Current Case Law & NFPA 1033/921 – 4 hrs
 - 12/09/16 - ATF-AOCCT - Complex Scene Practical – 2 hrs
 - 06/08/16 - CFI – Effective Investigation & Testimony – 3 hrs
 - 09/17/14 - ND-IAAI ATC – 2.5
 - 02/18/13 - CFI – Critical Thinking Solves Cases – 2 hrs
 - 07/08/08 - CFI – Fatal Fires – 4 hrs
- 10. Fire Investigation Methodology**
- 09/20/18 - ND-IAAI ATC - Fire Origin Pattern Persistence - 8 hrs
 - 02/01/18 - CFI - Ethics & Social Media - 1 hr
 - 09/19/17 - NFPA 921 changes - 8 hrs
 - 12/09/16 - ATF-AOCCT - Complex Scene Practical – 1 hr
 - 02/18/13 - CFI - Magnetek/Daubert – 2 hrs
 - 01/18/13 - CFI - Validating Hypothesis – 2 hrs
 - 07/05/09 - CFI - Fire & Explosion-utilize 1033/921 – 2 hrs
 - 09/01/08 - CFI - Complex Fire Scene – 4 hrs
 - 07/20/07 - CFI - Scientific Method – 3 hrs
 - 08/27/03 - ND-IAAI ATC – Fire investigation – 8 hrs
 - 08/22/01 - ND-IAAI ATC – Fire investigation – 8 hrs

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11. Fire Investigation Technology

- 04/19/18 - ND-IAAI ATC - Strategic Social Media for Fire Invest - 4 hrs
- 02/01/18 - CFI - Investigating Natural Gas Systems - 3 hrs
- 10/16/17 - CFI - DNA - 3 hrs
- 09/20/17 - ND-IAAI ATC - Accelerant Detection Dog presentation - 4 hrs
- 07/19/17 - ND-IAAI Quarterly training - UL Class - 2 hrs
- 10/19/16 - ND-IAAI Quarterly training - Accelerant K-9 course - 2 hrs
- 09/17/14 - ND-IAAI ATC – 2 yrs
- 02/20/12 - CFI – Insurance & the Fire Investigator – 4 hrs
- 09/14/11 - ND-IAAI ATC – Forensic Eval of Lubricants – 4 hrs
- 12/13/09 - CFI – Digital photography – 4 hrs

12. Hazardous Materials

- 09/26/16 - Argus Pacific - Asbestos Awareness & Lead Awareness
- 09/17/14 - ND-IAAI ATC – 1
- 09/19/12 - ND-IAAI ATC – Safety/Hazmat – 4 hrs
- 06/15/09 - CFI – Vacant/Abandoned Buildings – 4 hrs
- 07/07/06 - CFI – Scene Safety – 3 hrs

13. Failure Analysis and Analytical Tools

- 09/21/18 - ND-IAAI ATC - Electrical Fire Investigation - 4 hrs
- 12/12/16 - ATF-AOCCT - Fatal Fire Investigations – 1 hr
- 12/09/16 - ATF-AOCCT - Complex Scene Practical – 1 hr
- 03/19/14 - CFI – Basic Electricity – 1 hr
- 02/18/13 - CFI – Critical Thinking Solves Cases – 2 hrs

14. Fire Protection Systems

- 12/12/16 - ATF-AOCCT - Building Construction – 2 hrs
- 12/06/16 - ATF-AOCCT - Fire Protection Systems – 4 hrs
- 12/21/14 - CFI – Residential Building Construction – 3 hrs
- 09/19/12 - ND-IAAI ATC – Building Const – 4 hrs
- 10/22/04 – IFC transition from 1997 - .6 hrs

15. Evidence Documentation, Collection and Preservation

- 09/19/18 - ND-IAAI ATC - Camera & Lighting Techniques for Fire Scenes - 4 hrs
- 02/01/18 - CFI - Investigating Natural Gas Systems - 3 hrs
- 02/01/18 - CFI - Ethics & Social Media - 1 hr
- 09/17/17 - CFI - Evidence Examination: What Happens at the Lab? - 4 hrs
- 12/09/16 - ATF-AOCCT - CV/Resume 1 hr

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12/09/16 - ATF-AOCCT - Complex Scene Practical – 1 hr
12/08/16 - ATF-AOCCT - Fire Chemistry/Fire Scene Forensics 1 hr
12/06/16 - ATF-AOCCT - Report Writing – 2 hrs
10/19/16 - Accelerant K-9 2 hrs
09/10/15 - ND-IAAI ATC – 4 hrs
09/19/12 - ND-IAAI ATC – interviewing 4 hrs
09/19/12 - ND-IAAI ATC – report writing 4 hrs
04/16/12 - CFI – Search & Seizure – 4 hrs
10/16/11 - Armstrong - Identifying the source – 1.5 hrs
05/24/10 - CFI – Physical Evidence – 1 hr
12/13/09 - CFI – Documenting the Event – 4 hrs
08/19/09 - ND-IAAI ATC – documenting the scene – 4 hrs
08/19/09 - ND-IAAI ATC – report writing – 4 hrs
08/19/09 - ND-IAAI ATC – evidence collection – 4 hrs
08/19/09 - ND-IAAI ATC – interviewing – 4 hrs
11/09/07 - CFI – Intro to Evidence – 4 hrs
08/22/07 - ND-IAAI ATF – IAAI Courtroom Testimony – 20 hrs

16. Electricity and Electrical Systems

09/21/18 - ND-IAAI ATC - Electrical Fire Investigation - 4 hrs
12/08/16 - ATF-AOCCT - Appliance Fires with Demo – 4 hrs
12/07/16 - ATF-AOCCT - Electrical Aspects of Fire Scenes with Lab – 4 hrs
09/10/15 - ND-IAAI ATC – 4 hrs
06/14/15 - CFI – Residential Electrical – 4 hrs
09/17/14 - ND-IAAI ATC – 4
03/19/14 - CFI – Basic Electricity – 1 hr
02/11/14 - Electric Car Fires - .2 hrs
11/22/10 - CFI – Electrical Safety – 3 hrs
09/29/10 - CFI – Arc Mapping – 4 hr