

# Mark Mason

G1, LP, PM2, CFEI, CVFI



# 100, 17819-106 Avenue  
Edmonton, Alberta  
T5S 2H1

## EDUCATION

Business Administration, Mohawk College, Hamilton, ON (1990)

## CERTIFICATION

Certified Fire and Explosion Investigator (CFEI)  
Certified Vehicle Fire Investigator (CVFI)

## TECHNICAL AFFILIATIONS

Sat on Ontario Regional Common Ground Alliance Regional Council  
Risk Reduction Group Member for Digester and Landfill Gas Code Review

## PROFESSIONAL EXPERIENCE

I have over 25 years' experience in the inspection and investigation of hydrocarbon fuel incidents. This includes all hydrocarbon equipment related to residential commercial and industrial uses. I have extensive experience in equipment failure mechanisms and have an excellent understanding of the operation of all types of equipment related to hydrocarbon fuels. I have completed thousands of inspections and investigations involving residential, commercial and industrial hydrocarbon fuelled burners. I have an expert knowledge base on the CSA B149.1 Natural Gas and Propane installation code and have worked with the code in the inspection, investigation and enforcement of its requirements for over 25 years.

I am an inspector with over 25 years of experience in the oil and gas field. My areas of expertise include inspection and investigation of gas and oil pipeline installations. I have worked on and developed procedures and safety codes for the oil and gas industry and have been a senior investigator for all hydrocarbon fuels related incidents. For the last two and a half years, I have been involved with the Alberta Energy Regulator Pipeline Team, investigating and inspecting the construction, maintenance and operation of upstream oil and gas pipelines. I have developed a thorough understanding of all hydrocarbon pipeline systems and have completed the NACE advanced internal pipeline corrosion course. My excavation and damage prevention skills have been developed over 12 years with the Ontario Regulator TSSA.

I have a thorough knowledge of pipeline construction and all pipeline valves and components in the system. I have acquired a thorough understanding of regulations and codes for all hydrocarbon fuels and am proficient in the interpretation and understanding of the CSA Codes B149.1, 149.2, 149.3, 149.5, 149.6 Fuel Oil Code, Liquid Fuels code and Z662 Pipeline code. I have a working knowledge of A.S.M.E Welding codes and regulations pertaining to high-pressure piping. I understand and can interpret and explain the Alberta Pipeline Act and Rules. I have extensive experience in presenting and liaising with a variety of individuals, groups and organizations, as well as the public, to educate, inform and work together toward mutually agreeable solutions.

## 2017 to Present

Fire Investigator/Fuels Specialist, **Origin and Cause Inc.**  
Edmonton, Alberta

- Investigate all structural and vehicular fires
- Prepare technical reports outlining origin and cause of fires
- Provide technical expertise for hydrocarbon related fires and explosions to other investigators and outside principals requiring expert analysis
- Refine and upgrade my skills through various workshops and training seminars
- Provide training opportunities to the insurance industry through workshops and seminars through presentations and demonstrations of fire investigation related information

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- Prepare technical evaluation reports about all hydrocarbon-based equipment failures including residential, commercial and industrial applications

## 2014 to 2017

Inspector Surveillance and Enforcement (Pipelines), **Alberta Energy Regulator**  
Slave Lake, Alberta

- Inspected and investigated all pipeline related incidents and operations of Licensees in the Slave Lake operational area
- Evaluated new pipeline construction projects with regard to environmental, regulatory and safety considerations
- Presented alternative recommendations for pipeline maintenance, operation and mitigation strategies to help the Licensees gain knowledge and work toward compliance
- Assisted non-technical AER staff with understanding of pipeline operations and components to increase knowledge and evaluation skills
- Acted as a resource for Licensees and assisted them in meeting the obligations, benchmarks and goals of the organization within the regulatory framework
- Developed effective relationships within the Slave Lake operational area with Licensees, from the President to the field operation staff

## 2000 to 2014

Provincial Offences Officer, **Technical Standards and Safety Authority**  
Toronto, Ontario

- Inspected and investigated all aspects and incidents involving hydrocarbon fuels
- Monitored and audited the work of over 300 contractors in the geographical area, issuing reports and compliance orders when necessary
- Prepared cases for prosecution and legal action up to and including testifying in court
- Consulted with decision makers in large corporations, including the President of the company, relating to key safety or compliance areas which needed enhancing
- Liaison and train municipal fire and law enforcement agencies in the hydrocarbon field, both in-field and in the classroom
- Key resource to other enforcement agencies, including the Ontario Fire Marshall, Ministry of Labour, Ministry of the Environment, and local Fire and Police departments in the investigation of incidents, providing detailed reports on the findings
- Conducted daily data entry of reports, answering emails and managing schedules for upcoming weeks and months.
- Supervised a team of 8 other junior inspectors, acting as a resource and overseeing their work

## 1992 to 1999

Utility Services Rep, **Union Gas**  
Cambridge, Ontario

- Performed all functions related to the gas distribution system
- Changed and set new meters
- Responded and assisted in making safe all emergency situations related to the gas distribution system
- Worked with all size of piping and pressures in the gas distribution system
- Selected the appropriate regulators and components in the gas distribution system for installation and repair

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- Assisted in the repairs and maintenance of the gas distribution up to and including gate station responsibilities
- Repaired and maintained customer-owned equipment, including superior troubleshooting skills with regard to the electrical and mechanical operations of HVAC systems
- Conducted daily data entry of the service call into an in-truck data entry terminal

## HIGHLIGHTS

- Extensive investigation experience
- Member of Ontario Regional Common Ground Alliance Regional Council
- Extensive knowledge of regulatory frameworks and interpretations
- Fully fluent in 11 different hydrocarbon regulations and 7 different hydrocarbon codes: b149.1 b149.2 b149.3 b149.4 b149.5 b149.6; Ontario regulations 210/01,211.01,212.01,213.01,214.01,215,01, 217.01; TSSA Fuel Oil Code; Liquid Fuels Handling Code; z662 Oil and Gas Pipeline Systems Code; Pipeline Act of Alberta; all AER directives and manuals
- Working knowledge of A.S.M.E and pipeline welding and pressure regulations
- Ability to liaise and influence decisions with all levels of government, corporations and enforcement agencies
- Ability to prepare, segment and support reports for presentations and submission
- Training on monitoring and testing equipment related to hydrocarbon fuels
- Thorough understanding of technical reports and diagrams relating to all hydrocarbon piping and equipment
- Strong verbal communication
- Conflict resolution
- Excel and presentation and training skills
- Experience with word processing and spread sheet programs

## ACCOMPLISHMENTS

- Investigated and reported on over 500 fires and 100 explosions as a lead investigator
- Completion of CFEI Training update, January 2019
- Enrollment in Safety Codes Officer Training course for gas inspection, P province of Alberta, 2020
- Obtained CFEI certification, February 2017
- Completed CVFI course, September 2017
- Completed the NACE advanced pipeline internal corrosion course, June 2015
- Completion of Unmanned Aerial Flight Ground School course, November 2015
- Completed Ontario Fire Marshall fire cause and determination course giving me exceptional fire and explosion experience
- Investigated and reported on over a hundred fires and over 500 hundred gas pipeline damages and incidents, October 2003
- I have a G1 LP PMH PM2 PM3 certification. This certification and experience gives me a fluent knowledge of all Ontario regulatory legislation and relevant hydrocarbon codes and guidelines.
- My 3-year business administration diploma from Mohawk college gives me the relevant business experience in reporting and analyzing business and technical reports for review

