



John McCutcheon

C.Tech, CFEI, CFII, RSE

Fire and Explosion Investigator, Fuels Specialist

OFFICE

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John is a Certified Fire and Explosion Investigator and Fuels Specialist. He has over 17 years of experience, including 3 years with the Technical Standards and Safety Authority where he was Fuels Safety Inspector and Fuels Technical Trainer. Prior to that, he spent 10 years as a Refrigeration and Air Conditioning Systems Mechanic (313A Journeyperson) and Construction and Maintenance Electrician (309A Journeyperson). John has also taught refrigeration and gas fitting at Fanshawe and Conestoga Colleges.

CERTIFICATIONS

- Refrigeration and Air Conditioning Systems Mechanic Journeyperson (RSE 313A)
- Construction and Maintenance Electrician Journeyperson (RSE 309A)
- Gas Fitter 1 (G-1)
- Oil Burner Mechanic 1 (OBT-1)
- Liquid Propane Mechanic (LP)
- Hydrogen Fuel Technician (H2)
- Petroleum Mechanic for Underground Installations (PM-2)
- Petroleum Mechanic for Aboveground Installations (PM-3)
- Refueling Station Installer for compressed fuel gases (RSI)
- Refrigeration Plant Operator B
- Certified Fire and Explosive Investigator (CFEI)
- Certified Fire Investigator Instructor (CFII)
- Certified Engineering Technician (C. Tech) OACETT (Electrical Discipline)
- Certified Installer of Protex Kitchen Fire Suppression Systems
- Trainer Certification – Advanced Managing of Resistive Behavior
- ASME B31 and B51 Training – National Board In-service Inspector
- Wood Energy Technology Transfer (WETT)

TECHNICAL AFFILIATIONS

- Member – National Association of Fire Investigators (NAFI)
- Member – International Association of Arson Investigators (IAAI)
- Member – Ontario Municipal Fire Prevention Officers Association (OMFPOA)
- Member – The Ontario Association of Certified Engineering Technicians and Technologists (OACETT)
- Member – Heating, Refrigeration, and Air Conditioning Institute of Canada (HRAI)
- Member – Wood Energy Technology Transfer (WETT)

PROFESSIONAL EXPERIENCE

Fire and Explosion Investigator/Fuels Specialist

OCI Group (Formerly Origin and Cause Incorporated)

Burlington, ON

May 2024 – Present

- Investigate structural fires and explosions
- Prepare technical evaluations of specific component or appliance failures
- Write investigative reports outlining the origin and cause of losses
- Provide technical expertise for hydrocarbon-related fires and explosions

Fuels Technical Trainer

Technical Standards and Safety Authority (TSSA)

June 2022 – May 2024

- Create, maintain, and deliver curriculum for hydrocarbon fuels-specific training for fuels safety inspectors
- Onboard and mentor new inspectors to the TSSA within Fuels, Boilers and Pressure Vessels, as well as Elevating and Amusement Devices
- Serve as technical advisor to all departments within the TSSA to include engineering, inspection, legal, and management
- Member of Hydrogen working group to develop training and standards for the evolving hydrogen fuel industry

Fuels Safety Inspector

Technical Standards and Safety Authority (TSSA)

October 2021 – June 2022

- Respond to fuel oil and liquid fuel spills
- Conduct inspections, investigations, complaints, and audits pertaining to hydrocarbon fuels
- Enhance public safety and ensure compliance to the TSSA Act, applicable Ontario regulations, codes, and standards
- Perform final inspection of field-approved appliance and variance applications
- Assist and advise other Regulatory Agencies when called upon

Contract Professor

Fanshawe College and Conestoga College

September 2018 – October 2021

- Developed and delivered curriculum for commercial and industrial refrigeration, air conditioning, electrical troubleshooting, and gas fitting
- Evaluate and maintain records of both written and practical skills assessments for post-secondary and continuing education students
- Mentor students and educate on the apprenticeship process and career paths within the skilled trades

Refrigeration and Air Conditioning Systems Mechanic and Construction and Service Electrician

Various contractors within United Association Local 787

June 2011 — October 2021

- Completed apprenticeship schooling while gaining practical experience transitioning from apprentice to journeyman as both a refrigeration mechanic (313A), as well as a construction and maintenance electrician (309A)
- Install, commission, diagnose, and repair residential, commercial, and industrial HVAC equipment, including chillers, boilers, and process burners, furnaces, and ventilation equipment
- Perform maintenance/service on hydrocarbon and ammonia refrigeration systems for industrial process, commercial process, and comfort cooling
- Service and maintain commercial and industrial natural gas, propane, and fuel oil burners on boilers, ovens, process equipment, and central heating systems
- Complete comprehensive fuel oil inspections for backup power/heating equipment at institutional facilities and data centers
- Install, inspect, and commission fuel above and below ground fuel tanks and fuel forwarding systems for compliance and safety

Utility Technician

National Fuel Gas Corporation

Dunkirk, New York

November 2007 — February 2010

- Operate and supervise the operation of heavy equipment, including excavators, backhoes, and directional drilling equipment to safely install natural gas main and

service infrastructure

- Experienced with low and medium pressure natural gas distribution mains and services
- Able to locate, excavate, and repair natural gas main and service leaks while ensuring crew and public safety
- Serve as mainline crew leader responsible for safety, productivity and customer service as well as ensuring the timely and accurate completion of reports to supervisors

Staff Sergeant

United States Marine Corps

June 1999 — November 2007

- Staff Sergeant (E-6) with combat service
- Ability to manage difficult situations in adverse conditions
- Mentor and supervise subordinate Marines in diverse and dangerous situations
- Responsible to effectively report to senior leaders on delegated tasks and ensure accomplishment of assigned missions
- Trained in the operation of heavy equipment, experienced in munitions and various ordnances
- Proven in first responder lifesaving skills

FURTHER TRAINING & EDUCATION

Expert Knowledge of the following regulations and codes:

- Ontario Regulation 213/07 – Ontario Fire Code
- Ontario Regulation 211/01 – Propane
- Ontario Regulation 212/01 – Natural Gas
- Ontario Regulation 213/01 – Fuel Oil
- Ontario Regulation 215/01 – Certificates
- LFHC 2017 – Liquid Fuels Handling Code
- CSA C22.1 – Electrical Safety Code
- CSA B139 – Installation Code for Oil Burning Equipment
- CSA B149.1 – Natural Gas and Propane Installation Code
- CSA B149.2 – Propane Storage and Handling Code
- CSA B149.3 – Code for the Field Approval of Fuel Burning Appliances

- CSA B51 – Boiler, Pressure Vessel, and Pressure Piping Code
- CSA B52 – Mechanical Refrigeration Code
- BNQ 1784 – Canadian Hydrogen Installation Code
- CSA B108 – Compressed Natural Gas Refueling Stations Installation Code
- CSA B365 – Installation Code for Solid Fuel Burning Appliances and Equipment
- ASME Section I – Power Boilers
- ASME Section IV – Low Pressure Boilers
- ASME Section VIII – Pressure Vessels