Michael Cadotte has a long career in virtually all areas of fire fighting, training & fire prevention. With over 25 years experience as a Professional Firefighter, Michael has the background knowledge and hands-on experience to ensure that Delegates receive only the most up-to-date and professional training available.

Professional Qualifications:
- Certificate in Fire Service Management
- Teaching and Training Adults Certificate Program
- Certificate in Fire Service Leadership
- Ontario Management Certificate Program
- Paramedic Studies Diploma Program
- Bachelor of Arts, Criminology
- Law and Public Protection Administration Program
- Ontario Fire Marshal’s Company Officer Certification Program
- Certified Instructor in CRP, Defibrillation. First Aid and First Response training, proven ability to provide full training in both English & French.
- Experienced in all aspects of fire fighting and rescue, including advanced medical responses, fire suppression, rescue, hazardous material response, vehicle extrication and fire prevention.
- Comprehensive working knowledge of the Fire, Building and NFPA codes.
- Advanced working knowledge of fire and police dispatching.
- Affiliations & Memberships:
  - Ontario Association of Fire Engineers
  - Municipal Fire Service Instructor’s Association
  - Ontario Firefighter Association
  - International Firefighter Association

Your International Course Facilitator

Michael Cadotte
Chief Instructor

Profile

Michael Cadotte has a long career in virtually all areas of fire fighting, training & fire prevention. With over 25 years experience as a Professional Firefighter, Michael has the background knowledge and hands-on experience to ensure that Delegates receive only the most up-to-date and professional training available.

Program Prerequisites:

Ensure fire fighters meet professional qualifications with the updated NFPA 1001.

- NFPA 1001: Standard for Fire Fighter Professional Qualifications identifies the minimum job performance requirements for career and volunteer fire fighters whose duties are primarily structural in nature. In a major change, the 2008 edition moves from Fire Fighter II to Fire Fighter I, the minimum requirement for Competencies for First Responder at the Operational Level for Responders to Hazardous Materials Incidents. This edition also includes the addition of a Skills Maintenance requirement.
- Ensure competency and document the two important levels of progression for fire fighters with the 2008 NFPA 1001. (Softbound, 22 pp. 2008)
- Prior to commencement of the Program all candidates must be in medically and physically fit condition.
- The strength of this program will not only lie in the high quality of the curriculum but in the dedication and commitment of our Professional Instructor. An active Advisory Committee, made up of respected professionals from within the fire service, will ensure the currency and relevancy of all aspects of this dynamic program.

Coverage

- Fire Behavior/Chemistry of Combustion
- Firefighter Personal Protective Equipment
- Fire Streams-Class B/Foam Systems
- Incident Management System
- Fire Detection, Alarm, and Suppression Systems
- Fire Suppression
- Hazardous Materials Awareness & Operations (Specific to Class B Firefighting and Pressurized tanks)
PRACTICAL FIRE FIGHTING TRAINING WORKSHOP

COURSE CONTENT
ALL SESSIONS WILL BE THEORY AND PRACTICAL BASED

DAY 1
FIRE BEHAVIOR/CHEMISTRY OF COMBUSTION
- Describe physical and chemical changes of matter related to fire.
- Discuss modes of combustion, the fire triangle, and the fire tetrahedron.
- Explain the difference between heat and temperature.
- Describe sources of heat energy.
- Discuss the transmission of heat.
- Explain how the physical states of fuel affect the combustion process.
- Explain how oxygen concentration affects the combustion process.
- Discuss self-sustained chemical reaction involved in the combustion process.
- Describe common products of combustion.
- Distinguish among classification procedures.
- Describe the stages of fire development within a compartment.
- Summarize factors that affect fire development within a compartment.
- Describe methods used to control and extinguish fire.

FIREFIGHTER PERSONAL PROTECTIVE EQUIPMENT
- Describe the purpose of protective clothing and equipment.
- Describe characteristics of protective clothing and equipment.
- Summarize guidelines for the care of personal protective clothing.
- List the four common respiratory hazards associated with fires and other emergencies.
- Distinguish among characteristics of respiratory hazards.
- Describe physical, medical, and mental factors that affect the firefighter's ability to use respiratory protection effectively.
- Describe equipment and air-supply limitations of SCBA.
- Discuss effective air management.
- Distinguish among characteristics of air-purifying respirators, open-circuit SCBA, and closed-circuit SCBA.
- Describe basic SCBA component assemblies.
- Discuss storing protective breathing apparatus.
- Summarize recommendations for the use of PASS devices.
- Describe precautionary safety checks for SCBA.
- Discuss general donning and doffing considerations for SCBA.
- Summarize general items to check in daily, weekly, and annual SCBA inspections.
- Summarize safety precautions for refilling SCBA cylinders.
- Discuss safety precautions for SCBA use.
- Describe actions to take in emergency situations using SCBA.
- Discuss operating in areas of limited visibility while wearing SCBA.
- Discuss exiting areas with restricted openings under emergency conditions while wearing SCBA.
- Don PPE and SCBA for use at an emergency.
- Doff PPE and SCBA and prepare for reuse.
- Perform emergency operations procedures for an SCBA.
- Exit a constricted opening while wearing standard SCBA.

DAY 2
FIRE STREAMS-CLASS B/FOAM SYSTEMS
- List methods that are used with fire streams to reduce the heat from a fire and provide protection to firefighters and exposures.
- Discuss the extinguishing properties of water.
- Describe friction loss.
- Define water hammer.
- Distinguish among characteristics of fire stream sizes.
- Discuss types of streams and nozzles.
- Discuss handling handline nozzles.
- Describe types of nozzle control valves.
- List checks that should be included in nozzle inspections.
- Operate a solid-stream nozzle, fog-stream nozzle & broken-stream nozzle.
- Describe the suppression characteristics of fire fighting foam.
- Define terms associated with types of foam and the foam-making process.
- Discuss how foam is generated.
- Discuss foam concentrates.
- Describe methods by which foam may be proportioned.
- Discuss foam proportioners.
- Discuss foam delivery devices.
- List reasons for failure to generate foam or for generating poor-quality foam.
- Describe foam application techniques.
- Discuss hazards associated with foam concentrates.
- Place a foam line in service — In-line eductor.

DAY 3
INCIDENT MANAGEMENT SYSTEM
- Discuss emergency scene preparedness.
- Discuss emergency scene safety.
- Summarize general guidelines for scene management including highway incidents, crowd control, and cordonning off emergency scenes.
- Explain the importance of personnel accountability.
- Summarize basic interior operations techniques.
- Describe emergency escape and rapid intervention.
- Respond to an incident, correctly mounting and dismounting an apparatus.

FIRE DETECTION, ALARM AND SUPPRESSION SYSTEMS
- List functions of fire detection, alarm, and suppression systems.
- Discuss general automatic sprinkler protection and types of coverage.
- Describe control valves and operating valves used in sprinkler systems.
- Describe major applications of sprinkler systems.
- Discuss operations at fires in protected properties.
- Operate a sprinkler system control valve.
- Manually stop the flow of water from a sprinkler.
- Connect hoseline to a sprinkler system FDC.
- Describe types of heat detectors.
- Describe types of smoke detectors/alarms.
- Explain how flame detectors and fire-gas detectors operate.
- Discuss combination detectors and indicating devices.
- Describe types of automatic alarm systems.
- Discuss supervising fire alarm systems and auxiliary services.
- Describe the operation of an automatic fire sprinkler system.
- Discuss water supply for sprinkler systems.
PRACTICAL FIRE FIGHTING TRAINING WORKSHOP

COURSE CONTENT
ALL SESSIONS WILL BE THEORY AND PRACTICAL BASED

DAY4

FIRE SUPPRESSION
- Explain the gas cooling technique.
- Describe direct attack, indirect attack, and combination attack.
- Discuss deploying master stream devices.
- Discuss structure fires in properties protected by fixed systems.
- Deploy and operate a master stream device.
- Turn off building utilities.
- Summarize considerations for hose line selection.
- Discuss stream selection.
- Discuss suppressing Class B fires.
- Explain why bulk transport vehicle fires are difficult incidents.
- Discuss control of gas utilities.
- Extinguish an ignitable liquid fire.
- Control a pressurized flammable gas container fire.

HAZARDOUS MATERIALS AWARENESS
(SPECIFIC TO CLASS B FIREFIGHTING AND PRESSURIZED TANKS)
- Summarize Awareness-Level and Operations-Level responsibilities at hazardous materials incidents.
- Describe types of respiratory protection.
- Summarize respiratory equipment limitations.
- Describe types of protective clothing.
- Discuss U.S. EPA levels of protective equipment.
- Describe NFPA* 1994 PPE ensemble classifications.
- Discuss PPE selection factors.
- Discuss health and safety issues when wearing PPE.
- Explain proper procedures for inspection, testing, and maintenance of protective clothing and equipment.
- Describe health and physical hazards that may be present at hazmat incidents.
- Describe physical properties of hazardous materials.
- Explain how the General Hazardous Materials Behavior Model (GEBMO) can help firefighters understand the likely course of an incident.
- Explain locations or occupancies clues to the presence of hazardous materials.
- Explain container shapes clues to the presence of hazardous materials.
- Explain transportation placards, labels, and markings clues to the presence of hazardous materials.
- Explain other markings and colors (non-transportation) clues to the presence of hazardous materials.
- Explain how the senses can provide clues to presence of hazardous materials.
- Explain how monitoring and detection devices can provide clues to the presence of hazardous materials.
- Obtain information about a hazardous material using the Emergency Response Guide (ERG).

DAY5

HAZARDOUS MATERIALS OPERATIONS
(SPECIFIC TO CLASS B FIREFIGHTING AND PRESSURIZED TANKS)
- Summarize incident priorities for all haz mat and terrorist incidents.
- Discuss the management structure at haz mat or terrorist incidents.
- Describe the problem-solving stages at haz mat and terrorist incidents.
- Explain how the strategic goal of isolation and scene control is achieved.
- Explain how the strategic goal of notification is achieved.
- Explain how the strategic goal of ensuring the safety of responders and the public is achieved.
- Summarize general guidelines for decontamination operations.
- Describe the three types of decontamination.
- Discuss implementing decontamination.
- Discuss rescue at haz mat incidents.
- Explain how the strategic goal of spill control and confinement is achieved.
- Discuss crime scene management and evidence preservation.
- Explain actions taken during the recovery and termination phase of a haz mat or terrorist incident.
- Perform emergency decontamination.
- Perform defensive control functions – Absorption.
- Perform defensive control functions – Diking.
- Perform defensive control functions – Damming.
- Perform defensive control functions – Division.
- Perform defensive control functions – Retention.
- Perform defensive control functions – Dilution.
- Perform defensive control functions – Vapor dispersion.

WHY THIS EVENT
- This is simply the best option when you need to enhance safety and improve the skills of your employees.
- Classes are tailored to your activities and work environment, allowing your team to ask relevant questions about applying the code.
- An expert, NFPA qualified instructor assisted by an Arab speaking trainer will guide you through the code they helped develop.
- There will be Step-by-step exercises and hands-on Practical scenarios.
- Valuable CEUs - All attendees earn continuing education units. NFPA has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET).
- Top-flight Training Materials - Informative, easy-to-follow workbooks and copies of the relevant code for all participants.

WHO SHOULD ATTEND
- All Emergency Dispatch Personnel
- Security Directors, Head, Managers
- Building & Facility Managers, Owners
- Risk Managers
- Emergency Response Team
- Plant Security Head, Managers, Incharge
- Security vendors and houses
- Investigation officers & others

COURSE SCHEDULE

8.00 Registration & Coffee / Tea
8.30 Workshop commences
10.00 - 10.20 Morning coffee / tea
12.30 - 13.30 Lunch
14.40 - 15.00 Afternoon coffee / tea
16.00 End of day

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