

Appendix H FESNL Training School Courses

Fire Protection Courses offered by FESNL

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- Marine Firefighting for Land-Based Firefighters
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- Fire Hydrant Operation & Maintenance
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- Defensive Firefighting
- Air Brake Endorsement
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- SCBA Training
- NFPA 1031, Fire Inspector Code Enforcement – (5 Day Program)

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Fire & Emergency Services Instructor (FESI) for Defensive Firefighting (Basic)

This two day course is designed for the training officer or personnel interested in delivering Defensive Firefighter Training (formerly 2 day basic, which has been completely revised). The course will teach presentation skills using the new Defensive Firefighter program material. The course will also show you how to develop a training program to keep members active in skill development. This course is a must have for all fire departments that are concerned about basic skills in their fire halls.

Basic Fire Inspection

This (2) two-day course is designed to give the Fire Inspector an understanding of the importance of an ongoing fire and life safety inspection program. The Fire Inspector will learn how to use such codes as NFPA 101, Life Safety Code, the National Fire Code of Canada, and the National Building Code of Canada. This Fire Inspection course will cover the fire and life safety requirements necessary in occupancies such as lounges, community halls, bed and breakfasts, schools, hotels/motels, health care facilities and commercial buildings. The candidate will learn how to complete capacity calculations, home oxygen inspections and review the plan review process requirements. This course will also cover the new Newfoundland & Labrador Fire and Life Safety Code Guidance Document.

Marine Firefighting for Land Based Firefighters

The Land Based Marine Firefighting program is intended to provide municipal fire departments with the knowledge and skills necessary to initiate defensive fire suppression activities on smaller fishing vessels (65 feet or less) and pleasure crafts. The course is designed to be delivered in a 14 – 16 hour period (2 days). Based on practical activities the course will be limited to 24 firefighters.

NFPA 1002, Fire Apparatus Driver/Operator - Driver Training

This is one of the three modules for the **Fire Apparatus Driver/Operator**. The information given will assist firefighters in meeting the performance requirements of NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*.

The Driver Training module will provide firefighters with the many elements of safe fire apparatus operations. The driver/operator will be provided with proper techniques for starting and driving the vehicle, driving in adverse conditions, and using the warning and traffic control devices. The driver/operator will also be given an understanding of the common causes of collisions and how they may be avoided. The driver/operator will also perform practical driving exercises required to meet NFPA 1002, Fire Apparatus Driver/Operator Professional Qualifications.

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This course is one of the three modules required to achieve certification to NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*. Those firefighters who do not wish to certify 1002 may however attend any or all modules offered in the Driver Operator Program. The course is designed to be delivered in a 14 – 16 hour period (2 days). Based on practical activities the course will be limited to 15 firefighters.

Note: Firefighters wishing to take this course must have valid air brake endorsement on their driver=s license.

NFPA 1002, Fire Apparatus Driver/Operator - Hydraulics Calculations

This is one of the three modules for the **Fire Apparatus Driver/Operator**. The information given will assist firefighters in meeting the performance requirements of NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*.

The Hydraulic Calculations module will give firefighters the knowledge to identify those things that aid or hinder the movement of water in hose lines, calculate friction loss using the various methods of calculation and calculate correct pump discharge pressure, gallons per minute (liters per minute), friction loss and nozzle pressure, using both written formula and estimation methods.

This course is one of the three modules required to achieve certification to NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*. Those firefighters who do not wish to certify 1002 may however attend any or all modules offered in the Driver Operator Program.

NFPA 1002, Fire Apparatus Driver/Operator – Pump Operations

This is one of the three modules for the **Fire Apparatus Driver/Operator**. The information given will assist firefighters in meeting the performance requirements of NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*.

This course is designed for fire service personnel to develop skills in the operations of fire pumps. Firefighters will learn the operating principles of centrifugal and positive displacement pumps, mid-ship, cross mounted and power take off drive and pumping operations such as drafting (static source), pumping from a hydrant (pressure source), relay pumping (pressure source) and water shuttle operations. Basic friction loss calculations to determine minimum pump pressures will also be involved.

This course is one of the three modules required to achieve certification to NFPA 1002, *Standard on Fire Apparatus Driver/Operator Professional Qualifications*. Those firefighters who do not wish to certify 1002 may however attend any or all modules offered in the Driver

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Operator Program. The course is designed to be delivered in a 14 – 16 hour period (2 days). Based on practical activities the course will be limited to 15 firefighters.

Fire Department Operations

This (2) two-day seminar will provide the participants with the skills necessary to conduct an assessment and evaluation of their fire department operations. This seminar will look at the planning function; identify levels of service, and the resources to meet the service levels. In addition, we will examine water supply needs, risk assessment, and fire department operations. The seminar will identify retention and recruitment issues and solutions as well as the development of an ongoing training program. We would also encourage the fire department to bring representatives of their local Town Council or Local Service District to this seminar.

NFPA 1021, Fire Officer I

This course is designed to gain the skills and knowledge necessary to assume the role as Fire Officer. The course will cover such topics as; leadership, management, public & government relations, budgeting, fire & life safety inspections, scene management & communications, pre-incident planning, and firefighter safety. The course is not a fire ground operations or fire control course. Candidates for this course must be either current fire officers or firefighters with a minimum of five (5) years experience. Current fire officers will have priority for course selection.

Basic Emergency Management

The intent of the Basic Emergency Management Course is to provide an introduction to the basic concepts of emergency management common to all Municipalities/Local Service Districts, as well as provinces and territories across Canada. It is designed for officials from all levels of government, emergency management coordinators and/or planners, emergency responders, volunteers, private sector representatives etc., to be better prepared to fulfill their emergency roles. The course material will enable emergency management personnel to implement processes for mitigating, preparing for, responding to and recovering from emergencies and disasters

Emergency Operations Centre Management (EOCM)

This course is designed for those who may be required to function effectively as members of an Emergency Operations Centre (EOC). The course introduces the candidate to the principles of emergency operations and control. Candidates receive an introduction to the standard operating procedures applied in an EOC. The focus of the course will be establishing, organizing and exercising an EOC. This is a two (2) day course that consists of lectures and tabletop exercises. Candidates must have successfully completed the BEM/EPO or equivalent course prior to being accepted to EOCM.

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Emergency Planning Workshop

This one day workshop is developed to assist Municipalities/Local Service Districts in the development of an Emergency Management Plan in accordance with new legislation, *Emergency Services Act*, effective May, 2009. The workshop is based on the 12 Steps to Developing an Effective Emergency Management Plan guide and CD-ROM. The workshop will be comprised of a variety of tools to assist you in completing your plan including a Hazard, Risk and Vulnerability assessment as well as an introduction to the various tools and templates available to aid in plan development

Public Information Officer

If you were at the center of an emergency in your community, do you have the tools needed to provide the public with the important safety information they need? Would you be able to manage the local and national media if they descended on your community? In this workshop, participants will learn the reasons why media ask the questions they do, how a media scrum operates, the importance of clear concise messaging that does not create public panic, and how to effectively deliver your message in times of crisis. By the end of this workshop, participants should have a grasp on the basics of media relations and communications during an emergency or disaster. This seminar is intended for municipal/local service district, and/or fire department officials and other emergency service organization representatives. FALL 2011; members of the local media and emergency services will assist with the afternoon training.

NFPA 472, Hazardous Materials - Awareness and Operational Level

Hazardous materials incidents require response by qualified personnel which can be addressed by training to the National Fire Protection Association (NFPA) Standard 472. This is the Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. The office is now following the 2008 Edition of the standard; there are some notable changes to this edition.

Awareness level personnel shall be persons who, in the course of their normal duties, could encounter an emergency involving hazardous materials/weapons of mass destruction (WMD) and who are expected to recognize the presence of the hazardous materials/WMD, protect themselves, call for trained personnel, and secure the area. The term responder has been dropped; these individuals might be the first on-scene, however, they might not be emergency responders.

The Operations level responder shall be that person who responds to hazardous materials/WMD incidents for the purpose of protecting nearby persons, the environment, or property from the effects of the release. This level includes fire, rescue, law enforcement, EMS, private industry and other allied professionals. Competencies for operations level responders have been broken into two categories: Core and Mission Specific.

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Core is required of all emergency responders at this level. This is essentially the competencies from NFPA 472, 2002 ed. minus product control and personal protective equipment (PPE).

Mission Specific competencies are available for operations level responders who are assigned to perform specific tasks. From the eight (8) mission specific categories the office will be offering two (2) at this time, namely the use of personal protective equipment as provided by the AHJ and performing product control.

Candidates must complete or have already completed the Awareness Level training as a prerequisite for attendance at Operations Level training. Upon completion and if desired an individual can go forward for certification testing at the Operations Core Level with the Mission Specific tasks of Personal Protective Equipment and Product Control. Testing is offered as part of the course. If attending the Operations Level program candidates must bring their personal protective clothing and SCBA.

Note: That effective May 1, 2009 firefighters seeking certification to NFPA 1001, Firefighter I must be certified to the Operations Core Level with the Mission Specific categories of Personal Protective Equipment and Product Control.

CBRN Basic (Chemical, Biological, Radiological & Nuclear Terrorism)

This course provides basic level training for first responders personnel who may need to recognize and respond to a CBRN situation, but who are not responsible for intervention. This course is recommended for first responders who may be in a position to recognize and respond to a CBRN incident, but would not be the ones to intervene (e.g. 911 operators, police, firefighters and emergency medical services personnel first arriving on the scene). The objective is to provide personnel with training on how to recognize potential CBRN threats and incidents, protect themselves and respond accordingly (i.e. first to arrive on scene, assess the situation and call in specialists as required). You must have standard service training to apply for this course. This course is a one-day classroom-based course delivered at the local/regional level. For those who are not able to participate in the classroom-based version, this course is also available online at http://cbrnonline.psepc.gc.ca/index_e.html.

NFPA 1041, Fire and Emergency Services Instructor - Level I (5-Day)

This (5) five-day program is designed to provide skills and teaching techniques for those who will be instructing fire and/or emergency services courses. The course will meet the requirements of NFPA 1041, Fire Services Instructor, Level I. Candidates who successfully complete the practical evaluations and written exam will receive Certification.

NFPA 1041, Fire and Emergency Services Instructor - Level II (5-Day)

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This course is designed to provide Instructors with a more in-depth knowledge of the instructional process, and testing and evaluating skills. This course will cover areas of identifying training problems, learner types, developing a training plan, planning the instruction, presenting lessons, teamwork communications, domains of learning and testing and evaluating procedures. Students are required to complete out-of-class study and course work throughout the week.

SCBA Fit Testing Train the Tester

This ½ day program will provide you with the knowledge and skills necessary to properly perform a qualitative fit test on the fire fighters in your department. This training meets the requirements of CSA Z94.4-02, Selection, Use, and Care of Respirators and NL Occupational Health and Safety regulations. The courses consist of both classroom material and actual hands on conducting fit testing of other firefighters. As you will also be fit tested please ensure that you are clean shaven at the start of the course.

Emergency Communications

Municipalities need to be prepared to respond quickly in the event of an emergency. This course is designed for Municipal employees and emergency responders who would be required to develop and operate a radio telecommunications network. The topics include basic radio communication equipment requirements, getting familiar with operations, routine communications, emergency traffic, licensing requirement and common terminology. Various components of communications equipment will be demonstrated and licensing requirement by Industry Canada will be discussed. Information will be provided by communications company representatives and Industry Canada.

NFPA 1001, Firefighter Level I

This course follows the NFPA 1001 standard for fire fighter professional qualifications. It uses the IFSTA Essentials 5th edition text book. This is an entry level course for new firefighters. Course consists of a combination of classroom study, scenarios and modular practical experiences that will prepare the firefighter to carry out most fireground functions under the direct supervision of an officer or experienced firefighter. The scenarios are designed to train the student in realistic fireground operations. Prerequisites for this training program are defensive firefighting course or equivalent, signed medical consent form and current standard CPR/1st Aid.

NFPA 1001, Firefighter Level II

This course follows the NFPA 1001 standard for fire fighter professional qualifications. It uses the IFSTA Essentials 5th edition text book. This course is for a firefighter who is ready to take on extra responsibilities in the fire department. The student will learn assuming and transferring

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command, acting as the company officer when leading a team in fire attack, pre-incident planning, fire prevention, fire department record keeping, foam use, fire suppression and alarm systems, and other important topics. Prerequisites for this training program are certification to Firefighter I, signed medical consent form and current standard CPR/1st Aid.

Certification Testing for NFPA 1001 - Firefighter I and Firefighter II

As you are aware the certification testing has been separated from the NFPA Firefighter I and Firefighter II training programs. In order for a firefighter to be certified he or she **must** be tested at one of the scheduled testing sessions. To be eligible for testing the firefighter **must** have completed the NFPA course offered by this office or have completed an approved equivalency program.

Note: In order to write the Firefighter I certification exam firefighters must be certified to NFPA 472, Hazardous Materials – Operations Level Chapter 5 Core Competencies Chapter 6.2 Personal Protective Equipment Chapter 6.6 Product Control. For Firefighter II certification the candidate must be certified to NFPA 1001, Firefighter I and have completed a Vehicle Extrication course.

Certification Testing for NFPA 472, Hazardous Materials - Awareness Level

To complete testing, candidates **must** have completed the Hazardous Materials - Awareness Level Course. Testing will consist of 50 Multiple Choice Questions covering Chapter 4, Competencies for the First Responder at the Awareness Level.

Certification Testing for NFPA 472, Hazardous Materials - Operations Level

To complete testing, candidates **must** have completed the Hazardous Materials - Operations Level Course. Testing will consist of 100 Multiple Choice Questions covering Chapter 5, Competencies for the First Responder at the Operations Level, 6.2 PPE and 6.6 Product Control. Candidates **must** be certified to NFPA 472, Hazardous Materials/Weapons of Mass Destruction Incidents, 2008 Edition, Awareness Level.

Written Test: A 70% pass mark will be required to achieve certification.

Practical Test (Skill Test)

- A random selection of skills shall be selected for each certification testing session.
- Each Skill Test must be completed successfully to receive a pass.

Certification Testing for to NFPA 1002, Standard on Fire Apparatus Driver/Operator Professional Qualifications – Pumper Level

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To complete testing the firefighter **must** complete the three Fire Apparatus Driver/Operator Modules; Pump Operations, Hydraulics, and Driver/Operator before presenting themselves for certification testing.

The firefighter **must** be certified as a Firefighter I, as specified in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter **must** have a valid driver's license with air brake endorsement.

50 Multiple Choice Questions covering all three modules. A 70% pass mark will be required to successfully pass the course.

Practical Test (Job Performance Requirement Testing)

- A random selection of five JPR's shall be selected for each certification testing session.
- Each JPR **must** be completed successfully to receive a pass

Exercise Design 100

This is an introduction course focusing on the five phases of an exercise cycle including preparing the foundation, designing and developing, conducting and evaluating the exercise, and improvement planning and relevant terminology. This course is a pre requisite for exercise design 200. It will introduce participants to the basic concepts of Exercise Design and to the different types of exercises that are available (such as workshop, tabletop, and functional exercises). Opportunity still exists for students to complete this online.

Exercise Design 200

This 2 day course builds on the concepts presented in Exercise Design 100 course and incorporates a blend of theory and practical application. It prepares participants to design, develop, conduct, control, evaluate, and implement post exercise requirements for a discussion-based exercise, specifically a Tabletop Exercise. The course is comprised of classroom sessions and practical activities. Participants will also have the opportunity to design and participate in a short simulated exercise.

***Candidates wishing to complete either of the self study courses should contact Fire and Emergency Services directly.**

Incident Command System 100 and 200 (ICS 100 and 200)

Incident Command System or ICS is a management system for command, control, and coordination of an emergency response. It provides a means to coordinate the efforts of individual agencies as they work toward the common goal of stabilizing the incident and protecting life, property, and the environment. ICS uses principals that are proven to improve

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efficiency and effectiveness in emergency response. **The ICS 100 is a computer based self study course** that can be completed in four to six hours or it can be completed as a one (1) day course in a classroom setting. ICS 100 is the prerequisite for ICS 200.

***Candidates wishing to complete either of the self study courses should contact Fire and Emergency Services directly.**

Fire Hydrant Operation & Maintenance

Training session presented by the Operator Education, Training and Certification Section of the Water Resources Management Division, Department of Environment and Conservation, is a half day interactive program. It is intended to enlighten participants who use or maintain hydrants in their municipalities. This session will be conducted in a classroom type setting where the Operator Trainers use training aids and actual hydrant parts, along with video presentation, to demonstrate proper operation and maintenance procedures. The presentation will discuss the different models in use in this province and demonstrate the operation of one such hydrant, using a cut-away model. It will cover the disassembly and repair of broken hydrants and address operational issues such as surge control and drainage. Options available to modernize or upgrade existing hydrants to better accommodate maintenance or changing demographics will also be presented.

Vehicle Traffic Management

The traffic management seminar was created to reduce the negative effects of the response to emergency roadway incidents by the motoring public, and to provide an increased level of scene safety to responders, (Police, Paramedics, Fire and Recovery) by the organized placement of emergency vehicles and traffic control devices at the emergency scene. When responding to an incident scene, a priority for first responders is protecting themselves from the dangers inherent to working in traffic. This course offers guidelines responders can use to enhance their safety by:

1. **Establishing a Traffic Incident Management Area (TIMA)** – Utilize all available equipment to set up emergency traffic control and provide positive guidance to the driver as to what is happening and where to drive.
2. **Avoiding the errant or distracted driver** – Do not turn your back to traffic. Face traffic and remain alert at all times; utilize another person as a lookout or spotter to watch for dangers and provide warnings. Always have an escape plan to get out of the way of errant drivers.
3. **Using protective equipment** – Being seen by motorists is extremely important when working in and near traffic, especially during nighttime and inclement weather. Always wear appropriate high-visibility safety apparel (i.e. vest, jackets, pants, etc.).

Defensive Firefighting

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This two (2) day training program teaches basic firefighter skills that all firefighters should have. While the program has both classroom and practical training, the focus is placed on basic skill development.

The program will cover the following topics;

- Firefighter Orientation and Safety
- Fire Behavior
- Building Construction
- Personal Protective Clothing and SCBA
- Portable Extinguishers
- Building Search and Victim Removal
- Forcible Entry
- Ground Ladders
- Ventilation
- Water Supply and Coupling, Loading, & Rolling Hose
- Water Fire Streams and Fire Control
- Salvage and Overhaul

Firefighters will be required to bring their own personal protective clothing (bunker gear) and a set of SCBA if available. If traveling by air please ensure that the SCBA cylinder is depressurized (empty).

Air Brake Endorsement

This one day course will give the attendee a complete and clear understanding of the concept of what air brakes are and how they operate. It is covered in a step by step process including a display of actual air brake system parts. At the end of the course the attendee will be given the opportunity to write the air brake test. Upon successful completion, you will receive a 09 (Air Brake) endorsement. Candidates enrolling in this course must have a **valid** Newfoundland and Labrador Drivers License

NFPA 1006, Standard for Technical Rescuer Professional Qualifications, 2008 Edition -Vehicle and Machinery Rescuer Level I (3 Day Program)

This course takes you from hand tools to the latest advanced techniques in heavy hydraulic extrication equipment. Both classroom and hands on training cover a wide range of important topics. This course is designed to provide rescue personnel with an understanding of the current challenges, techniques, skills, and equipment available for a safe and effective extrication of victims trapped in land-based vehicles of all types. The tools, equipment, and techniques used in this course represent the current state of the art as practiced by rescuers throughout the world allowing the rescuer to perform safely and effectively. Firefighter safety and working at a scene, air bag dangers, electric vehicle concerns, patient considerations,

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vehicle stabilization and the new construction materials in current vehicles are some of the many topics that will be covered.

SCBA Training

This 2-day SCBA course will consist of a combination of classroom and live practical evaluations wearing SCBA and its importance during emergencies and hazardous atmospheres. **Candidates must complete or have already completed the 2 Day Basic Firefighting or Defensive Firefighting course as a prerequisite for attendance at this course.** The candidate will learn the proper use of SCBA and components associated with its use. Face piece fit testing as well as maintenance procedures for SCBA and Breathing Air systems are key components of this program. The candidate will also be given instruction in the practical use of SCBA, search & rescue techniques and be able to establish accountability of firefighting on the emergency scene. ***Firefighters will be required to bring their own personal protective clothing (bunker gear) and a set of SCBA if available.***

NFPA 1031, Fire Inspector Code Enforcement - (5 Day Program)

This fire inspection and code enforcement course is designed for those individuals who are actively engaged in fire and life safety inspections. The five (5) day course is forty (40) hours long and also requires evening study with work assignments. The program meets the requirements of NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, (2009) Edition, Level I.

The program will cover such areas as; duties and authority; standards, codes, and permits; construction types and occupancy classifications; means of egress; water supply distribution systems; water-based fire-suppression systems; special-agent fire-extinguishing systems and extinguishers; fire detection and alarm systems; fire hazard recognition; site access; storing, handling, dispensing of hazardous materials; plan review and field verification, and inspection procedures.

All participants must have a copy of the following:

- Fire Inspection and Code Enforcement, 7th Edition
- Fire Inspection and Code Enforcement, 7th Edition Student Workbook
- NFPA 101, Life Safety Code, or Life Safety Code Handbook (**Recommended**)
- NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, current edition.