



JUSTICE INSTITUTE  
of BRITISH COLUMBIA

# Fire & Safety Division

Course Catalogue  
2006



[www.jibc.bc.ca/fire](http://www.jibc.bc.ca/fire)





FIRE & SAFETY  
Division

# Course Catalogue 2006

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## Message from the Director



Welcome to our 2006 Fire & Safety Division (FSD) catalogue. Each year we train thousands of fire fighters, industrial responders and community volunteers in courses that make our world safer. We take this training responsibility seriously, not only do we ensure our material is current through compliance with, for example, the National Fire Protection Association (NFPA) five year code updating cycle, but we also listen to you the customer. Every FSD course taught has a system where all students are encouraged to provide comment as to how the course they attended can be improved and did it meet their needs. These comments are reviewed and where a positive outcome will result, changes are made. In addition in many instances class round tables are held to gain greater insight as to program effectiveness and where areas are identified needing changes, they are acted upon. We also open ourselves to examination from several accreditation and review bodies such as International Organization for Standardization (ISO 9001, 2000 International Standard), National Board on Fire Service Professional Qualifications (Pro Board), and the International Fire Services Accreditation Congress (IFSAC). What this means to you the customer is that we are better focused not only in providing programs in areas that will assist you and your fellow worker/employee safety, but also assist in facing the challenges and issues by those of you who work on the frontlines or in management and leadership positions.

As an Institution covered under our provinces college and university legislation we are able to offer courses that will ladder into certificates, diplomas, and shortly a baccalaureate degree (Bachelor of Fire & Safety Studies) without needless duplication. This will better allow you to be recognized alongside fellow professionals (people who have received extensive training and recognition in their areas of expertise) whether making a public safety inspection, providing emergency scene management control or stretching a hose line to the fire. Doctors and nurses are generally considered professionals due to the extent of education and training they have taken, even though they may at times volunteer their services to others. Similarly whether you are a paid on call fire fighter, full time professional fire fighter or industrial employee, or a person protecting ones community on a purely voluntary basis, our courses will allow you to demonstrate the same professional recognition which other professions have attained.

The courses and programs in this catalogue vary from very practical hands-on skill training to very practical education all focused upon the very latest in safety practices meeting current standards. We are proud of the courses we offer you. Please check our web site frequently, perhaps by book marking it, for new course offerings, workshops and customized delivery of topics that you have requested. We want to continue to serve you even better in the future than we have in the past; Please feel free to offer your suggestions in this regard either by e-mail [gmadness@jibc.bc.ca](mailto:gmadness@jibc.bc.ca) or telephone at 604-528-5666. Thanks for the opportunity to serve your needs.

Glen Maddess  
Director

Fire & Safety Division

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# Table of Contents

## Section 1: GENERAL INFORMATION

Fire & Safety Division .....	6
Location and Contact Information .....	6
Location Map .....	7
Justice Institute of BC .....	8
How to Use This Catalogue .....	9
Course Site Flexibility .....	10
Services Offered .....	10
Contract Courses .....	10
Regional Training Weekends .....	10
Fire Leadership Series .....	10
Training Materials for Purchase .....	11
Library .....	11
Justice Institute Store .....	12
Distance Education .....	12
Student Information .....	12
Course Schedule and Fee Information .....	13
Fee Structure for Clients .....	13
Registration .....	14

## Section 2: PROGRAMS

Basic Fire Fighting Certificate .....	18
BC Fire Fighter Certification Program .....	19
Evaluator Certification Workshop .....	20
NFPA 1001 Challenge .....	21
Career Fire Fighter Pre-employment Certificate Program .....	22
Industrial Emergency Responder Certificate Program .....	24
Fire Service Leadership Diploma Program .....	25
Fire Officer I .....	27
Fire Officer II .....	28
Fire Officer III .....	30
Fire Officer IV .....	32

## Section 3: COURSES

<b>Airport Emergency Response Courses</b> .....	35
Aircraft Emergency Response Awareness .....	35
Emergency Response Involving Downed Aircraft .....	35
<b>Apparatus Training Courses</b> .....	36
Emergency Vehicle Driver Training (EVD) .....	36
Emergency Vehicle Operation (EVO) .....	36
Pumps and Pumping .....	37
<b>Emergency Scene Management Courses</b> .....	37
Emergency Scene Management I .....	28 & 37
Emergency Scene Management II .....	29 & 37
Emergency Scene Management III .....	31 & 38

<b>Fire Fighting Courses</b> .....	38
Fire and Structural Integrity .....	38
Incident Safety Officer .....	39
Live Fire - Level I .....	39
Live Fire - Level II .....	39
Live Fire - Level III .....	40
Live Fire Special .....	40
Rapid Intervention Team (RIT) .....	40
Shipboard Fire Fighting for the Land Based Fire Fighter .....	41
Strategies and Tactics .....	41
Vehicle Rescue - Level I .....	41
Vehicle Rescue - Level II .....	42
 <b>Forest Fire Suppression Courses</b> .....	 42
Basic Fire Suppression and Safety .....	42
Fire Operations in the Wildland Urban Interface (WUI) .....	42
 <b>Fire Investigation Courses</b> .....	 43
Fire Investigator I - Fire Cause and Origin .....	43
 <b>Hazardous Materials Courses</b> .....	 43
Atmospheric Monitoring .....	43
Hazardous Materials Emergency Response - Spill Control .....	43
Hazardous Materials Emergency Response - Awareness .....	44
Hazardous Materials Emergency Response - Operations .....	44
Hazardous Materials Emergency Response - Technician .....	45
Hazardous Materials Emergency Response for Incident Commanders - Chemical, Biological, Radiological, and Nuclear Terrorism .....	45
Hazardous Materials Emergency Response - Refresher .....	46
Rail Tank Car Specialist .....	46
 <b>Industry Courses</b> .....	 47
Building Construction .....	47
Fire Safety and Extinguisher Training .....	47
H <sub>2</sub> S Safety & Response .....	47
Industrial Fire Fighter - Introduction .....	48
Industrial Fire Fighting - Level I .....	48
Industrial Fire Fighting - Level II .....	48
Industrial Fire Fighting - Level III .....	49
Industrial Fire Fighting - Brigade Team Leader .....	49
Refinery Fire Fighter - Level I .....	49
Refinery Fire Fighter - Level II .....	50

<b>Inspector Courses</b> .....	50
Fire Inspector I .....	50
Fire Inspector II .....	51
Plan Examiner I .....	52
BC Fire Code I .....	53
BC Building Code I .....	53
Fire and Life Safety Educator I .....	53
 <b>Instructor Courses</b> .....	 54
Fire Service Instructor I .....	28 & 54
Fire Service Instructor II .....	29 & 55
 <b>Technical Rescue Courses</b> .....	 56
Confined Space Rescue - Awareness .....	56
Confined Space Rescue - Operations .....	56
Confined Space Rescue - Technician .....	57
Confined Space Rescue - Refresher .....	57
Fall Protection .....	57
Technical Low to Steep Angle Rope Rescue - Awareness and Operations .....	58
Technical High Angle Rope Rescue - Operations .....	58
Technical High Angle Rope Rescue - Technician .....	58
Industrial/High Angle Rope Rescue .....	59
Tower Crane Rescue Refresher .....	59
 <b>General Courses</b> .....	 59
Basic Fire Science .....	59
Basic Orientation for New Departments .....	60
Employability Skills .....	60
Fire Safety at Work .....	61
General Physics .....	61
Introduction to Situational Leadership® .....	61
Situational Leadership® .....	62
Technical Math .....	62
 <b>Also of Interest</b> .....	 62
Centre for Conflict Resolution .....	62
Centre for Leadership and Community Learning .....	63
Critical Incident Stress Management Certificate .....	63
Masters Program in Justice and Public Safety Leadership .....	63
 <b>Section 4: INDEXES</b>	
Alphabetical .....	65
Maple Ridge Campus .....	66
New Westminster Campus .....	67
International Fire Service Training Association (IFSTA)	
Material Order Form .....	68

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FIRE & SAFETY  
Division

# General Information

## Section 1



## **Fire & Safety Division**

The Justice Institute of BC (JIBC) Fire & Safety Division delivers programs and courses from two locations; the New Westminster Campus and the Maple Ridge Campus. Please see maps on the following page.

The New Westminster Campus focuses on the training of fire department personnel through course offerings which include, but are not limited to, a fire fighter certification program, fire officer programs, instructor and inspector training, as well as customized courses.

The Maple Ridge Campus delivers a wide range of courses and programs, from basic structural, marine and industrial fire fighting and pre-employment fire fighter training to hazardous materials courses and specialized programs developed to meet client needs. Courses focus on hands-on training, combined with classroom theory. Small class sizes ensure everyone participates in the learning process.

The Maple Ridge Campus is located 58 kilometres east of Vancouver. It includes training areas and props designed for a wide range of scenarios, such as the eleven-railcar derailment configuration, tower crane, extinguisher training, live fire, hazardous materials response props, and confined space rescue.

### **Location and Contact Information**

#### **Fire & Safety Division New Westminster Campus**

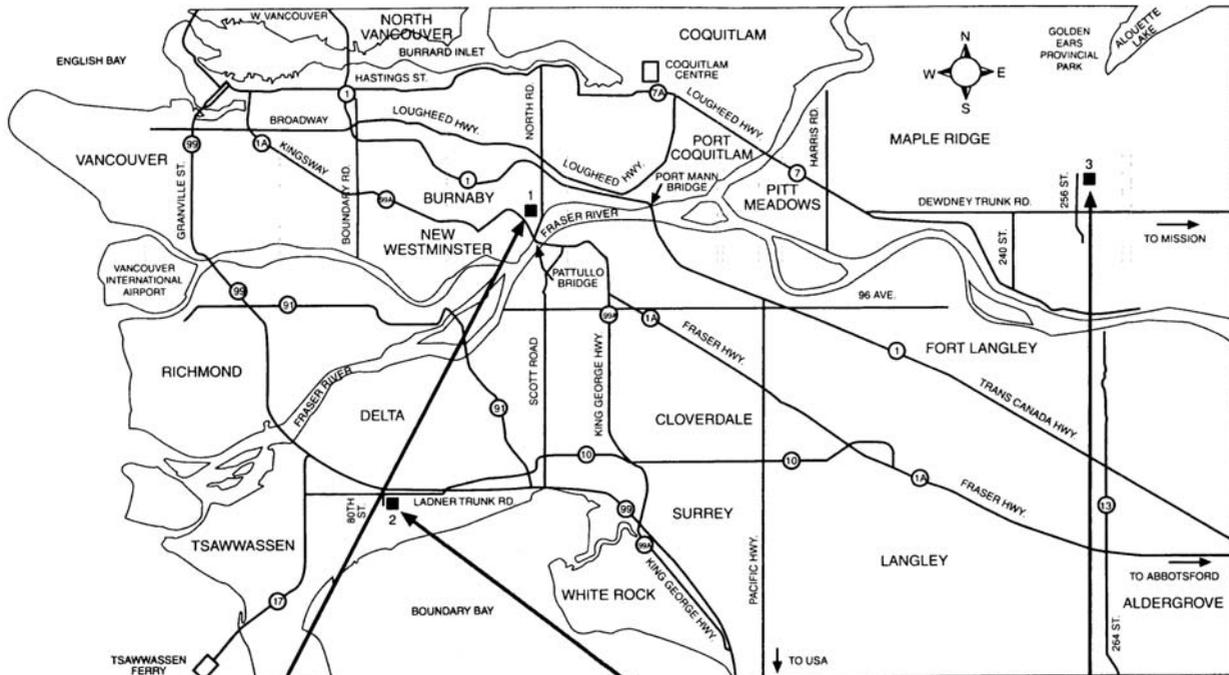
715 McBride Boulevard  
New Westminster, BC V3L 5T4  
Tel: 604-528-5657  
Toll Free: 888-214-3177  
Fax: 604-528-5660  
email: fireacademy@jibc.bc.ca

#### **Fire & Safety Division Maple Ridge Campus**

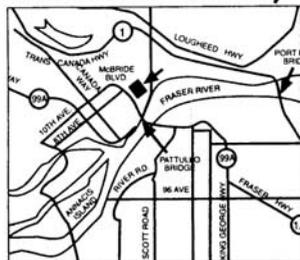
13500 - 256th Street  
Maple Ridge, BC V4R 1C9  
Tel: 604-462-1000  
Toll Free: 888-844-0445  
Fax: 604-462-9149  
email: fstc@jibc.bc.ca

**Directions to: Maple Ridge**

- Take the Lougheed Highway (No. 7) to Maple Ridge
- As you enter Maple Ridge turn left on Dewdney Trunk Road
- Turn left on 256th St
- The Site is approx. 3 km, on the right

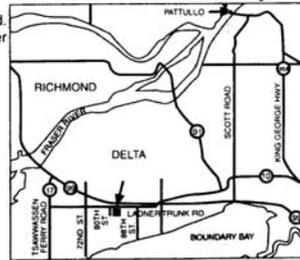


1. JUSTICE INSTITUTE Main Campus



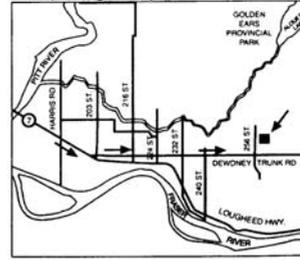
715 McBride Blvd.  
New Westminster  
BC V3L 5T4  
Telephone:  
(604) 525-5422  
Facsimile:  
(604) 528-5653

2. JUSTICE INSTITUTE Pacific Traffic Education Centre



Boundary Bay Airport  
Telephone:  
(604) 528-5805  
Facsimile:  
(604) 525-5806

3. JUSTICE INSTITUTE Maple Ridge Campus



13500 -  
256th Street  
Maple Ridge  
BC V4R 1C9  
Telephone:  
(604) 462-1000  
Facsimile:  
(604) 462-9149

## The Justice Institute of BC

The Justice Institute of BC is a dynamic, post-secondary learning organization recognized nationally and internationally for continuous improvement and innovative education. Our unique provincial mandate encompasses education and training in the areas of criminal and social justice, public safety and social services making British Columbia's communities safer places to live. Each year the JIBC's distinctive educational co-op model attracts more than 27,000 students from across Canada and throughout the world.

More than 1,500 courses, seminars and conferences are offered in residence at JIBC campuses, in communities around the province, at employers' preferred locations, and online through the "virtual" JIBC. Customized courses and services are also offered for government and industry.

**Our academies and divisions reflect the following areas of expertise:**

- Centre for Conflict Resolution
- Centre for Leadership and Community Learning
- Corrections and Community Justice Division
- Courts Academy
- Critical Incident Simulation Centre
- Emergency Management Division
- Emergency Social Services
- Fire & Safety Division
- Pacific Traffic Education Centre
- Paramedic Academy
- Police Academy

### Local and International Clientele

The JIBC has earned an international reputation for professional standards and adaptability and for its state-of-the-art equipment and facilities. Our students are local and global, as clients from around the world look to us for education, training and consulting services. Countries such as Hong Kong, the Philippines, Saudi Arabia, Singapore, South Africa, United Arab Emirates, and the United States have called on our staff and instructors' expertise to educate, consult and evaluate their services.

For more information on our programs and services, visit [www.jibc.bc.ca](http://www.jibc.bc.ca) or call 604-525-5422.

### JIBC Telephone Directory

General Inquiries	604-525-5422
Registration	604-528-5657 or toll free 1-888-214-3177
Finance & Administration	604-528-5500
Centre for Conflict Resolution	604-528-5608
Centre for Leadership and Community Learning	604-528-5608
Corrections & Community Justice Division	604-528-5531
Courts Academy	604-528-5567
Emergency Management Division	604-528-5790
Emergency Social Services	604-528-5790
<b>Fire &amp; Safety Division</b>	
(New Westminster Campus)	604-528-5657 or toll free 1-888-214-3177
(Maple Ridge Campus)	604-462-1000 or toll free 1-888-844-0445

JIBC Store	604-528-5870
Learning & Information Services	604-528-5600
Library	604-528-5599
Pacific Traffic Education Centre	604-528-5807
Paramedic Academy	604-528-5707
Police Academy	604-528-5753

### JIBC Campus Contact Information

#### New Westminster Campus

715 McBride Blvd.  
New Westminster, BC  
V3L 5T4  
Tel: 604-525-5422 or toll free 1-888-214-3177  
Fax: 604-528-5518

#### Victoria Campus

Suite 101- 910 Government St.  
Victoria BC  
V8W 1X3  
Tel: 250-405-3500  
Fax: 250-405-3505

#### Maple Ridge Campus

13500-256 Street  
Maple Ridge, BC  
V4R 1C9  
Tel: 604-462-1000 or toll free 1-888-844-0445  
Fax: 604-462-9149

#### Vancouver Downtown Campus

18th floor 400 Burrard St  
Vancouver, BC  
V6C 3A6  
Tel: 604-528-5590  
Fax: 604-528-5653

## How to Use This Catalogue

The Fire & Safety Division offers programs and courses to a wide variety of clients. For ease of use, we have divided this catalogue into four main sections: General Information, Programs, Courses, and Indexes. The Programs and Courses sections are categorized by what we feel are the most appropriate organizational headings. Some of these courses may be appropriate in other areas. For a complete alphabetical listing of ALL of our courses please see the index starting on page 64. We have further categorized the Programs and Courses listings into three types based on the client market served: general public, fire service, and industry/marine. Not all of the courses offered are available to each category. Beside the course/program listing, we have used icons to designate each category. The icons used are as follows:



General Public



Fire Service



Industry/Marine

## Course Location Flexibility

Courses can be delivered on site or at various locations as agreed upon if there is an appropriate number of students.

## Services Offered

### Contract Courses

In addition to the wide range of courses and programs listed in this catalogue, the Fire & Safety Division offers customized and site-specific courses to clients. We can adapt existing courses or design courses to meet client needs. All custom courses are designed in consultation with the client and reference any and all relevant standards or needs. Courses may be presented at the client's facility on a contract basis.

For further information on contract courses, contact the Fire & Safety Division, Maple Ridge Campus at 604-462-1000 or the New Westminster Campus at 604-528-5657.

### Regional Training Weekends

The Fire & Safety Division is committed to the provision of high-quality emergency response training throughout the province. One way to encourage participation in training is to provide it to all regions through the provision of **Regional Training Weekends**.

Regional Training Weekends are a method used to provide geographically specific training in a cost effective manner. This is achieved through the use of a Host Fire Department concept. A Host Fire Department assists with the organizational services involved in a training weekend.

If you wish to host a Regional Training Weekend, or simply need more information please contact:

Regional Training Coordinator  
**Fire & Safety Division - Maple Ridge Campus**  
13500 - 256th Street  
Maple Ridge, BC. V4R 1C9  
Phone: 604-462-1000  
Fax: 604-462-9149

### Fire Leadership Series

In response to requests by the Fire Service through our Fire & Safety Division Advisory Committee we are pleased to announce our Fire Leadership Series.

We are currently developing a series of seminars on topics of interest to emergency response personnel. These short seminars will be conducted by well-known experts in their respective fields throughout the province of BC and will deal with topics current to the fire service, industrial responders, and other public safety personnel.

Some of the topics that we are pursuing include:

- Chemical, Biological, Radiation and Nuclear Situations and Response
- Clandestine Drug Labs – a Law Enforcement Perspective
- Other topics of interest in your region

If you are interested in hosting and/or sponsorship opportunities for a seminar in your region please contact the Fire and Division at 604-528-5657

## Training Materials for Purchase

The Fire & Safety Division offers a range of materials that support our programs.



### International Fire Service Training Association (IFSTA)/ Fire Protection Publications and Jones and Bartlett Publishers

The Fire & Safety Division is the authorized IFSTA/Fire Protection Publications and Jones and Bartlett distributor for the province of British Columbia. The Fire & Safety Division offers IFSTA's and Jones and Bartlett's complete line of publications and related training materials. These materials support a wide range of training topics for fire, safety, industrial and medical users.

#### Fire & Safety Division Publications

*Risk Management for the Fire Service, 2nd Edition.* ISBN 0-7726-3985-X, 58 pages, Price \$25.00 plus gst. This publication explores the legal aspects of liability and focuses on issues in the fire service and ways of preventing exposure to potential lawsuits.

*Health and Fitness in the Fire Service.* By James B. Carter Phd. ISBN 0-7726-5115-9, 61 pages, Price \$25.00 plus gst. This publication is a guide for fire fighters who wish to attain and maintain a high level of fitness..

#### Purchasing Materials

If you are interested in purchasing IFSTA or Jones and Bartlett materials or Fire & Safety Division Publications, please contact the Fire & Safety Division at 604-528-5657 or see the IFSTA order form at the back of this catalogue.

## Library

Library and information services are provided to all members of fire departments. The services are accessible by mail or in person. If you have specific requests for information, contact the library directly. Borrowers are responsible for loss or damage to materials. A library card is not required. The Library houses videos, slides, books and magazines on public safety and justice topics.

Some of the topics include:

- Training
- Apparatus and Equipment
- Management
- Disasters and Hazardous Materials
- Fire Behaviour
- Fire Prevention and Suppression
- Smoke and Ventilation
- Rescue and First Aid
- Fire Investigation
- Marine Safety and Fire Fighting

The monthly newsletter, Library News, listing new books and audiovisual materials, is sent to all fire departments, and is also available on the library website.

The Library is open from 8:00 am to 5:00 pm on weekdays and 9:00 am to 4:00 pm on Saturdays (from September to June).

For further information contact the Library at 604-528-5599; fax: 604-528-5593 or email: [library@jibc.bc.ca](mailto:library@jibc.bc.ca); or check out the library section of the JIBC website: [www.jibc.bc.ca](http://www.jibc.bc.ca).

## Justice Institute Store

Located at the JIBC's main campus in New Westminster, the JIBC Store is a retail outlet managed to support and promote the work of the JIBC and its clients. The store offers an ever-expanding array of crested clothing, student supplies, JIBC publications, specialty equipment related to the JIBC's work, and gifts selected to ensure the JIBC's reputation for quality is represented through its merchandise. Open weekdays 9:30 a.m. to 4:00 p.m. or e-mail: [jibcstore@jibc.bc.ca](mailto:jibcstore@jibc.bc.ca) or visit the store on-line at [www.jibc.bc.ca](http://www.jibc.bc.ca).

## Distance Education

Many courses are offered in the distance learning format. These courses are identified as self-study under the presentation section of the course description. Students will have telephone and email access to Fire & Safety Division tutors and are encouraged to use this service as it is an integral part of the course. Out of province students will have to pay long distance telephone charges.

The Distance Education Program for the Fire Service in the Province of British Columbia is a series of courses that allows fire fighters and officers to upgrade their knowledge through self-study of learning materials provided to them in their own locality. This method allows students to work at their own pace within the structure of a three month system. Distance education courses are available through correspondence and via the internet. When registering for a course, students should make it clear which option they prefer.

Several certification courses are available. The courses are based on the qualifications established by the NFPA, and have been amended as necessary to reflect the needs of the BC Fire Service. Successful completion of a full program leads to certification at that level.

## Student Information

*If you are taking courses at the Maple Ridge Campus the following is important for you to note.*

**Clothing:** Please check specific clothing requirement when registering for a course general guidelines include:

- Some courses require coveralls/work clothes and/or long sleeve T-shirts (natural fibers, no synthetics).
- You may also require a complete change of clothes.
- If required, full protective clothing will be assigned for the duration of the course.
- You are required to wear full leg and arm coverings (natural fibers, no synthetics) under turnout gear.
- *No shorts or tank tops permitted.*

**Beards:** Most of our courses use self-contained breathing apparatus (SCBA). Your face must be clean-shaven where the SCBA mask fits. Moustaches are permitted only if they do not affect the seal of the SCBA face piece. This is a requirement of the National Fire Protection Association, Canadian Standards Association, WorkSafeBC and Transport Canada, Marine Safety.

**Eye Wear:** Prescription safety glasses may be worn with SCBA if they are in an approved holder that does not affect the seal of the SCBA.

**Clean Up:** Showers and soap are provided. Please bring your own towel.

**Lunch:** There is no cafeteria at our Maple Ridge Campus. Unless otherwise notified, please bring a lunch.

**Parking:** Parking is available at no charge. Follow the signs.

**Accommodation:** Many motels in the area offer discounts to students. Mention your student status when booking rooms. For information on accommodation in the area visit our website at [www.jibc.bc.ca](http://www.jibc.bc.ca) and click on “student services” or call the Maple Ridge Chamber of Commerce at 604-463-3366.

## Course Schedule and Fee Information

For current schedule and fee information contact the Registration Office at 604-528-5590 or 1-877-528-5591 or the Fire & Safety Division website: [www.jibc.bc.ca/fire](http://www.jibc.bc.ca/fire).

## Fee Structure for Clients

Students enrolled in Fire & Safety Division programs are responsible for their travel, meals and accommodation\* costs.

### Fees:

• Certificate Fee (Program Completion, BC Fire Fighter)	\$30.00
• Certificate Fee (Fire Service Instructor I & II Host Department Only)	\$60.00
• Replacement of Certificate	\$50.00
• Name Change on Certificate	\$50.00
• Prior Learning Assessment Review (PLAR)	\$95.00 per Course
• Photocopy of Certificate	\$10.00
• Fire Fighter Module Exam Fee	\$5.00
• Fire Fighter Practical Evaluation Fee	\$5.00
• Basic Fire Fighting Certificate Subject Fee	\$15.00

### Fees for Producing Complete Department Student Status Reports:

• Departments under 100 members	\$100.00
• Departments 100-150 members	\$150.00
• Departments 150-200 members	\$200.00
• Departments over 200 members	negotiated on an individual basis

*All fees are subject to change.*

\*Student discounts are available at hotels in the area. Please check when registering for courses.

## Registration

- BY MAIL:** Justice Institute of BC  
715 McBride Boulevard, New Westminister, BC V3L 5T4  
Attn: Registration Office
- BY PHONE:** 604-528-5590; Toll Free: 1-877-528-5591; TDD/TTY:  
604-528-5655 (8:30 am – 4:00 pm, Monday to Friday)
- BY FAX:** 604-528-5653
- IN PERSON:** Office Hours 8:00 am – 4:30 pm, Monday to Friday

## Register Early:

Many courses fill quickly, so register early to avoid disappointment. Registrations are accepted on a first-come, first-served basis. Please specify classroom or distance education format. *Registration cannot be completed until we receive full payment for the course(s).* No post-dated cheques will be accepted.

## Tax Deduction:

You may deduct tuition fees from your taxable income if the total amount exceeds \$100.00 for the year. Income tax receipts will be issued in February for previous year courses.

## Refunds/ Transfers/Withdrawals:

Registration fees are refundable provided that there is sufficient notification of cancellation. Required withdrawal or transfer notice varies from 7 to 30 days depending on the course. Please confirm the transfer/withdrawal policy with registration staff when registering for a course.

Refunds are subject to an administrative charge of \$25.00 with the exception of the **Career Fire Fighter Pre-employment Certificate Program which requires a \$500.00 non-refundable deposit and has a pro-rated administrative fee schedule for withdrawals.** Textbook fees are non-refundable.

## Substitutions:

Course substitutions are welcome as long as the substituting participant has completed the course prerequisites. The substituting participant must communicate this to the Registration Office.

## NSF Cheques:

A fee of \$15.00 applies to all cheques returned “NSF” (Non-sufficient funds).

## Course Cancellations:

A full refund of tuition fees will be issued for courses cancelled by the Justice Institute. The Institute is not responsible for participant’s expenses (e.g. airline or hotel reservations) if a course is cancelled. The Institute reserves the right to cancel courses. We truly regret any inconvenience this may cause.

**Confirmation of Registration:**

Confirmation of registration is sent to students by mail. We are unable to confirm registration by fax. If you have questions regarding your confirmation, please contact a registration representative by telephone at 604-528-5590.

**Students with Disabilities:**

The Justice Institute has received funds from the Ministry of Advanced Education to provide support to students with disabilities attending courses at the Justice Institute. For further information on the support available, please contact a Registration Services Advisor at 604-528-5588 or TDD/TTY 604-528-5655.

**Aboriginal Students:**

There is an Aboriginal Advisor available to provide information and office support to First Nations students. To speak with an Advisor or to obtain a brochure on Aboriginal Services, please call 604-528-5614.

**Student Loans:**

Student loans are available for the Career Fire Fighter Pre-employment Certificate Program only. Application forms are available from Registration Services Advisor at 604-528-5588 or TDD/TTY 604-528-5655.

**Transcripts:**

For transcripts of student records please contact the Registrar's office at 604-528-5590.

*Please note that all tuition, material and administrative fees are subject to change. For the most current information visit our website at [www.jibc.bc.ca](http://www.jibc.bc.ca) or call the registration office at 604-528-5590.*

**Prior Learning Assessment Review (PLAR):**

Prior Learning Assessment is an assessment to determine if what has been learned outside the course or program is equivalent to the expected learning outcomes in the course or program. For more information please contact the Fire & Safety Division at 604-528-5660.

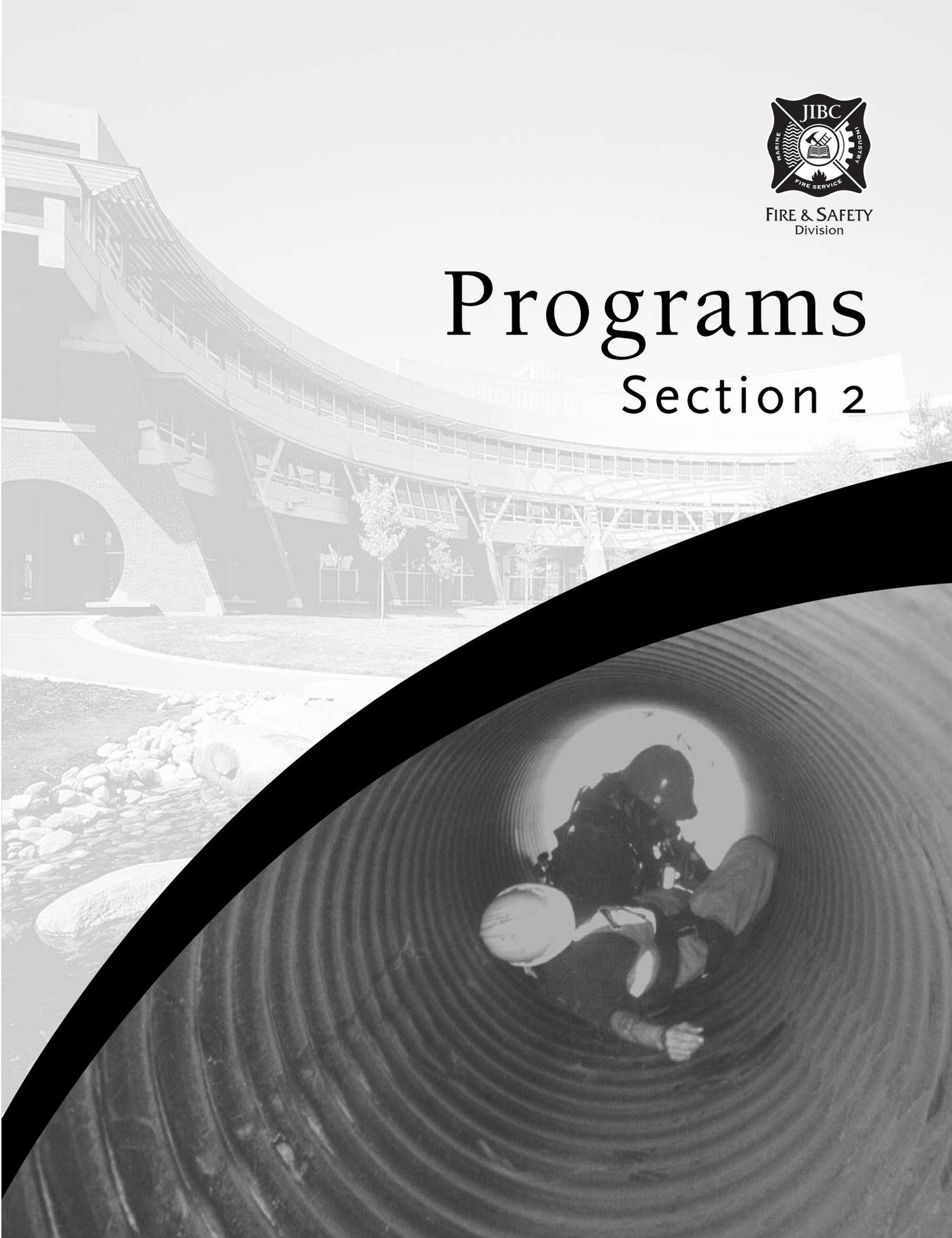
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FIRE & SAFETY  
Division

# Programs

## Section 2





## Basic Fire Fighting Certificate

The Basic Fire Fighting Certificate provides you, as a member of a volunteer or composite fire department in BC, with the basic training you need in order to serve your community. Some departments require this certificate for all new members.

### Program Outcome

Earning the Basic Fire Fighting Certificate demonstrates that you have an understanding of nine essential subject areas considered to be essential skills for all fire fighters.

### Application and Registration

The program is open to Fire Service personnel only. Prerequisites are based on fire department criteria.

To register members, fire departments obtain a registration form from the Fire & Safety Division or from the website at [www.jibc.bc.ca/fire](http://www.jibc.bc.ca/fire), and then fax or mail the form to the Fire & Safety Division, New Westminster Campus.

### Credential Issued

A certificate of achievement is issued upon successful completion of all examinations and evaluations administered by the Fire & Safety Division for subjects from the NFPA 1001 Standard. Training takes place using fire department resources or other self-directed method of learning.

### Courses

#### REQUIRED EXAMINATIONS

BFFW011: Safety – Written  
 BFFW021: Fire Behaviour – Written  
 BFFW031: Personal Protective Equipment – Written  
 BFFW041: Ropes and Knots – Written  
 BFFW051: Ladders – Written  
 BFFW061: Rescue – Written  
 BFFW071: Ventilation – Written  
 BFFW081: Fire Hose, Appliances and Streams – Written  
 BFFW091: Water Supplies – Written

#### REQUIRED EVALUATIONS

BFFP011: Safety – Practical  
 BFFP031: Personal Protective Equipment – Practical  
 BFFP041: Ropes and Knots – Practical  
 BFFP051: Ladders – Practical  
 BFFP061: Rescue – Practical  
 BFFP071: Ventilation – Practical  
 BFFP081: Fire Hose, Appliances and Streams – Practical  
 BFFP091: Water Supplies – Practical



## BC Fire Fighter Certification Program

The program is open to Fire Service personnel only. Prerequisites are based on fire department criteria.

To register members, fire departments obtain a registration form from the Fire & Safety Division or from the website at [www.jibc.bc.ca/fire](http://www.jibc.bc.ca/fire), and then fax or mail the form to the Fire & Safety Division, New Westminster Campus.

### Credential Issued

Students receive a Fire Fighter I and/or Fire Fighter II certificate(s), to NFPA 1001 Standard upon successful completion of the required courses at the respective levels, as listed below.

### FIRE FIGHTER LEVEL I COURSES

BCM011: Organization, Safety and Communication I  
 BCM021: Fire Behaviour, Extinguishers and Personal Protective Equipment I  
 BCM031: Ropes, Knots, Ladders and Rescue I  
 BCM041: Building, Ventilation and Forcible Entry I  
 BCM051: Hose, Fire Streams and Water Supply I  
 BCM061: Salvage, Overhaul and Fire Cause Determination I  
 BCM071: Fire Prevention, Education and Sprinkler Systems – Written I  
 BCM081: Fire Control I  
 BCM091: Hazmat Awareness  
 BCM101: Emergency Medical Care

### FIRE FIGHTER LEVEL II COURSES

BCM013: Organization, Safety and Communication I & II  
 BCM023: Fire Behaviour, Extinguishers and Personal Protective Equipment I & II  
 BCM033: Ropes, Knots, Ladders and Rescue I & II  
 BCM043: Building, Ventilation and Forcible Entry I & II  
 BCM053: Hose, Fire Streams and Water Supply I & II  
 BCM063: Salvage, Overhaul and Fire Cause Determination I & II  
 BCM073: Fire Prevention, Education and Sprinkler Systems I & II  
 BCM083: Fire Control I & II  
 BCM091: Hazmat Awareness  
 BCM093: Hazmat Operations  
 BCM101: Emergency Medical Care  
 FS210: Hazmat Operations

**Prerequisites:** Fire Department Criteria  
**Location:** Site specific  
**Presentation:** Fire Department Instructors or as arranged.  
**Certification:** Fire Fighter I and/or Fire Fighter II certificates, to NFPA 1001 Standard  
**Recommended Text:** Essentials of Fire Fighting, Fourth Edition  
 For additional information on this program call 604-528-5657.



## On-line Fire Fighter Training Support

The Fire & Safety Division has partnered with FireLearn® to make on-line learning a reality. FireLearn courses are based on Fire Fighter I to the NFPA 1001 Standard. Departments or individuals can register as usual in the Fire & Safety Division British Columbia Fire Fighter Program (BCFFP) and request the FireLearn on-line version of the program to use as their curriculum and study guide. By registering in the BCFF program, students can be evaluated through the Fire & Safety Division's system of evaluators. To receive Fire & Safety Division certification, students will be required to write the Fire & Safety Division exams in addition to any quiz provided on-line. Practical evaluations are also required to achieve certification in the British Columbia Fire Fighter Certification Program.

*Certification that follows is to NFPA 1001, Fire Fighter I.*

To view the product, please go to the FireLearn® website at [www.firelearn.com](http://www.firelearn.com) For more information and to purchase the FireLearn® on-line training package contact Pat Carnegie-Dunlop at 604-528-5670 or email: [pcarnegie-dunlop@jibc.bc.ca](mailto:pcarnegie-dunlop@jibc.bc.ca).

### Also of Interest to Smaller Fire Departments:

- Confined Space Awareness (see page 56)
- Emergency Scene Management I (see page 31)
- Fire Service Instructor I (see page 29)
- Hazardous Materials Emergency Response – Awareness (see page 44)
- Live Fire – Level I (see page 39)
- Technical High Angle Rope Rescue – Awareness Level (see page 58)
- Vehicle Rescue – Level I (see page 41)



## Evaluator Certification Workshop

### FIRE 250

This course teaches students the skills and knowledge necessary to become an evaluator in the BC Fire Fighter Certification Program. Upon completion of this course, the student will be able to evaluate students in the BC Fire Fighter Certification Program and perform administrative duties according to Justice Institute of BC and Fire & Safety Division policies.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Fire Service Instructor I, 5 years fire service experience including 2 years as a fire service trainer, completion of an online pre-examination and prerequisite validation, and approval by their home fire department.
<b>Presentation:</b>	2 days
<b>Location:</b>	Maple Ridge or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement

## Evaluator Certification Workshop Challenge

### FIRE 251

The Challenge is available to existing evaluators who were previously certified as an evaluator in the BC Fire Fighter Certification Program with the Fire & Safety Division prior to July 1, 2004. The Challenge is a 1-day session where existing evaluators may take the written and practical examination components of the Evaluator Certification Workshop without attending the entire 2 days.

*Please note, if the candidate is unsuccessful in the Challenge, the 2 day Workshop must be attended and full tuition will apply.*

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	Certified as an evaluator with the Fire & Safety Division prior to July 1, 2004
<b>Presentation:</b>	1 day
<b>Location:</b>	Maple Ridge or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement

## NFPA 1001 Challenge

### FIRE 001

In response to many requests the Fire & Safety Division has created a challenge model for fire fighters who have relocated from another province or jurisdiction, have taken in-house training and not been evaluated, or who have been grand-fathered under previous initiatives. The concept of a challenge means that a student takes part in an evaluation without the benefit of having had training by that organization. The NFPA 1001 Challenge was developed as a challenge model for students that fit into one of the above captioned categories.

The challenge includes written exams covering all aspects of the NFPA 1001 Standard and a practical evaluation of the critical skills contained in the standard. It occurs over five (5) days and includes all written and practical evaluations of Fire Fighter I and Fire Fighter II.

**Entrance Requirements:** The challenge process is designed to evaluate the knowledge and skills of fire fighters who are, or have been in the service, and does not include training or coaching. To be eligible to participate in the challenge process, candidates must provide verification of fire fighter training by the fire chief or training officer from the department where the training was provided.

It must be clearly understood that this challenge is based on NFPA 1001 – 2002 Edition and does not result in certification or an equivalent to the Career Fire Fighter Pre-employment Certificate Program. For more information on the challenge please call the Maple Ridge Campus at 604-462-1000.

<b>Credits:</b>	None
<b>Prerequisites:</b>	Written verification of knowledge and skills
<b>Presentation:</b>	5 day – written and field examination
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Certificate of Achievement (IFSAC Accredited)



## Career Fire Fighter Pre-employment Certificate Program

### Program Outcomes

The program prepares individuals to apply for the position of Career Fire Fighter, although successful completion does not guarantee employment. As part of that preparation, the student will receive certification to National Fire Protection Association (NFPA) 1001 Standard Fire Fighter I and II, Hazardous Materials Response to the Operations Level, First Responder Level III with Automatic External Defibrillators and Spinal Management endorsement, and five additional certificates of achievement.

As a graduate of the program, the student will obtain 30 post-secondary credits. These credits may be submitted to other post-secondary institutions for consideration as partial credit towards their programs.

### Application and Registration

The application, screening, and admission process for the Career Fire Fighter Pre-employment Certificate Program takes place two or three times a year. Applicants must have all required qualifications for admission to the program. The required and preferred qualifications are described in the student information and admission package.

Applicants who provide all the necessary documentation of required and preferred qualifications will progress to completion of the Entry Level Fire Fighter Written Exam. Those who pass the exam will be interviewed for personal attributes expected of a fire fighter. The final stage of screening for those who successfully complete the interview is an extensive fire fighter medical exam and physical fitness assessment.

### To apply for the program:

- Obtain a Student Information and Admission Package from the JIBC Registration Office or download the package from the Fire & Safety Division website at [www.jibc.bc.ca/fire](http://www.jibc.bc.ca/fire). The package provides detailed information about the steps applicants need to take to be admitted into the program.
- Complete the application form and provide required documentation for the following:
  - High school graduation or equivalent.
  - Class 3, BC Drivers License with Airbrake Endorsement. A driving record that demonstrates responsible and safe driving behaviour. More than six points in the last three years will be considered excessive.
  - Current CPR (Level C) certification\*.
  - No conviction for a criminal offence related to the job of a fire fighter.
- Register for the Entry Level Fire Fighter Written Exam by completing the Written Exam Registration Form and mailing or faxing it, along with the examination fee, to the JIBC Registration Office.

NOTE: Individual fire departments may have requirements for employment in addition to what is required for this program (i.e. ability to swim or additional post-secondary education). Please check with departments that you are considering applying to for their exact requirements.



## Credential Issued

Upon successful completion of required courses and evaluations, the student will receive a program certificate in addition to certificates of achievement in specific topics.

## Courses

Students will learn through theory, lectures, and practice drills, and will be examined on the following subjects, totaling 30 credits.

COURSE	CREDITS
Fire 160: Vehicle Rescue	1.0
Fire 161: Pumps and Pumping	2.0
Fire 162: Technical High Angle Rope Rescue Awareness	1.5
Fire 163: Hazardous Materials Response Training	2.0
Fire 164: Shipboard Fire Fighting for the Land Based Fire Fighter	1.0
Fire 165: Fire Hoses and Fire Streams	2.0
Fire 166: Self Contained Breathing Apparatus (SCBA) and Personal Protective Equipment (PPE)	1.5
Fire 167: Ground and Aerial Ladders	2.0
Fire 168: Resume Writing and Interviewing Skills	0.5
Fire 169: Building Structure	2.5
Fire 170: Ropes and Knots	1.5
Fire 171: Fire Control	3.0
Fire 172: Fire Prevention/Pre-Incident Planning	1.5
Fire 173: Fitness Training	2.5
Fire 174: Field Training Practice	2.5
FRSTRESP331: First Responder III with Automatic External Defibrillator and Spinal Management	3.0



For more information about this program visit the Fire & Safety Division website at [www.jibc.bc.ca/fire](http://www.jibc.bc.ca/fire) .

\*Certification and Re-certification for CPR – Level C may be obtained through the Paramedic Academy. The cost for Full Certification is \$65.00 plus gst including the textbook. Re-certification is \$50.00 plus gst including the textbook. All fees are subject to applicable taxes. For more information on these courses and upcoming dates please visit the Paramedic Academy website at:

[www.jibc.bc.ca/paramedic/programs/cme\\_programs/res.htm](http://www.jibc.bc.ca/paramedic/programs/cme_programs/res.htm) or call 604-528-5690.

new

## Industrial Emergency Responder Certificate Program

### Program Description

The Industrial Emergency Responder Certificate is a thirty-credit certificate program designed to meet the needs of individuals who currently work in an emergency response capacity in an industrial setting while at the same time performing their primary career responsibilities.

Program delivery is designed to be flexible enough to meet the needs of the working participant; enrollment in the program is open to anyone who wishes to seek a position in an industrial emergency response capacity.

Upon graduation from this program you will have mastered course content aligned to recognized international professional standards and obtained the requisite technical, physical and professional skills and the introductory theoretical knowledge required for employment as an industrial emergency responder.

In addition, this program also provides the foundation for further career development, allowing successful graduates to pursue the Industrial Diploma Program currently under development.

### Program Organization

The program is comprised of thirty credits. The learner is required to complete all of the required courses listed below, for twenty-four credits and in addition, complete six additional credits from the list of approved elective courses. The order and pace of completion is self-directed providing all coursework is completed within five years of beginning the certificate. (Average completion time is two to four years.)

### Required Courses – 24 credits

COURSE	CREDITS
Atmospheric Monitoring	1.0
Confined Space Entry and Rescue – Awareness	1.0*
Confined Space Entry and Rescue – Operations	2.0*
Clear and Simple: A Course on Writing Letters, Memos and Reports	1.5
Emergency Vehicle Operation	3.0*
Hazmat Awareness	0.5*
Hazmat Operations	2.0*
Hazmat Technician	3.0*
ICS 100	0.5
Industrial Fire Fighting – Level I	2.5*
Industrial Fire Fighting – Level II	2.5*
Industrial Fire Fighting – Level III	2.5*
Employability Skills	0.5
Technical High Angle Rope Rescue – Awareness	1.5*



**Elective Courses – 6 credits from the following courses:**

COURSE	CREDITS
Building Construction	1.0
Confined Space Entry and Rescue – Technician	2.0*
H <sub>2</sub> S Safety & Response	0.5
Industrial High Angle Rope Rescue	1.5
Rail Tank Car Specialist	3.0
Rapid Intervention Team	1.0
Shipboard Fire Fighting for Land Based Fire Fighters	2.0
Team Building	1.0
Technical High Angle Rope Rescue – Operations	2.0*
Technical High Angle Rope Rescue – Technician	2.0*

\* IFSAC and/or ProBoard accredited

For more information on this program please go to our website at [www.jibc.ca/fire](http://www.jibc.ca/fire) and click on the Industrial Emergency Responder Certificate Program link, located under the column called “Industrial” or contact the Maple Ridge Campus at 604-462-1000 or by email at [fstc@jibc.bc.ca](mailto:fstc@jibc.bc.ca).

## Fire Service Leadership Diploma



The Fire Service Leadership Diploma Program provides fire service personnel with opportunities to expand their overall knowledge of the fire service and to achieve certification to the Fire Officer I, II, III and IV levels of the NFPA 1021 Standard. All NFPA Fire Officer levels are accredited by the International Fire Service Accreditation Congress (IFSAC). Fire Officer I and II are also accredited by the National Board on Fire Service Professional Qualifications (ProBoard). Upon completion of each of the four levels of the Fire Officer Program, students are awarded a certificate incorporating the IFSAC Seal, which recognizes their standing in the program. Upon successful completion of Fire Officer IV plus 5.5 college or university level credits (in courses such as business administration, education, arts or sciences, social sciences and human resource management), students will be awarded the Fire Service Leadership Diploma.

The program is for fire service personnel in Career Fire Departments, Volunteer Fire Departments and Composite Fire Departments. It provides essential knowledge for supervision of fire fighters in fire stations, managing the operations of a fire station and department, and the necessary skills to manage emergency scenes.

The majority of courses in the Fire Service Leadership Program are available in both the distance education format and the classroom format. *Increasingly, courses will be available via the internet at [www.jibc.bc.ca/fire](http://www.jibc.bc.ca/fire).*

Because of hands-on requirements, specific courses such as Emergency Scene Management and Fire Service Instructor are delivered only in a classroom format.

Please note that all courses listed in the following pages are required for completion of the full Fire Service Leadership Diploma. Students may select individual courses from any level of the fire officer programs except in a small number of cases where pre-requisites are specified. For some courses this will result in a certificate of achievement and/or

the outcome will be recorded on a student transcript. To achieve certification at the respective fire officer level, pre-requisites must be met.

## **Instructors and Tutors**

Instructors for the classroom courses and tutors for the distance education courses bring a wealth of experience and expertise to the Fire Service Leadership Program. They are typically selected from practitioners in the field, and each has many years experience in the subject that they instruct or tutor.

## **Distance Education Format (Correspondence and Internet)**

Distance education (correspondence or on-line) enhances flexibility and is particularly suitable for province wide application. Students are able to remain in their regular work environment and can apply new skills and theories as they are acquired. This ensures that fire departments, which might not have staffing levels or budgets to support leaves of absence, can still participate in training opportunities. Distance learning can be very cost effective as it saves travel and accommodation costs and the need to have personnel to fill in for staff away on training.

The Distance Education format includes a series of courses that allow fire service personnel to upgrade their knowledge through self-study of learning materials provided to them in their own locality. Distance Education allows students to work at their own pace within a structured semester system. Assignment deadlines are set for each semester (spring, fall, winter). Each semester lasts for three months commencing in September (fall semester), January (winter semester) and April (spring semester). For the distance programs, students receive course materials, read, write and submit assignments. Tutors will grade the assignments and comment on all student work.

## **Tutors**

For each course, the student is assigned a tutor. The student's progress is guided and evaluated by the Fire & Safety Division appointed tutor, who evaluates course assignments and projects. The tutor informs the Fire & Safety Division of the student's progress and submits marks for assignments to the Division.

## **Materials**

The student registers for a specific program or course, usually in consultation with the Liaison Officer or Chief Training Officer. Each course contains the following:

- **Course binder:** This contains the administrative details, such as the name, telephone number and email address of the assigned tutor. The binder also contains objectives, instructional material, self-tests, practical exercises, and projects to be completed.
- **Support materials:** For several of the courses, additional textbooks or other materials are required. These are not included in the registration fee for the course and must be purchased separately.

## Fire Service Leadership Diploma



### Classroom Format:

For those individuals or departments that wish to have their fire service personnel participate via a classroom, Fire Officer I and II are offered in a full classroom format at the JIBC, New Westminster Campus. Please note that most of the classroom versions of the courses can be delivered locally throughout the Province where there is a sufficient number of students. Departments wishing to host these courses should contact the Fire & Safety Division.

### Distance Education/Classroom Combination Format:

The classroom version of the courses is open to students who also participate in the distance education courses. Students can register for courses via distance education and supplement these courses with a classroom version, as convenient.

## Fire Officer I

The NFPA 1021 Fire Officer Standard states that Firefighter Level II is a pre-requisite for Fire Officer I. Students registering for the Fire Officer I Program must have satisfied the criteria for Firefighter Level II by having completed the Pre-Employment Certification Program, or the BC Fire Fighter Program, or have obtained an equivalent standing granted by the Justice Institute's Fire & Safety Division

### Station Officer: Dealing with People

*F105 (distance education)/FC105 (classroom)*

This course introduces the fire officer to the origins of and future trends affecting fire protection in Canada, the formal organization of a fire department, theories of motivation, leadership, coaching, and discipline.

**Credits:** 2.0  
**Presentation:** Classroom Format: 5 days

### Station Officer: Dealing with New Operations

*F110 (distance education)/FC110 (classroom)*

This course introduces the fire officer to the elements of managing an effective training function, water supply, public fire safety education program, safety in the workplace, managing in-service inspections, and first responder services.

**Credits:** 2.0  
**Presentation:** Classroom Format: 5 days

### Fire Station Environment

*F115 (distance education)/FC115 (classroom)*

This course exposes fire officers to the pressures on a municipal organization, its budget process and liability concerns, the role of chief officers, employment equity, union management relations, and the balancing role a company officer must play between senior management and the union local. Students of volunteer departments will study methods of fund raising. This course also looks at methods of promoting change in the Fire Service.

**Credits:** 2.0  
**Presentation:** Classroom Format: 5 days



## Emergency Scene Management I

*F120 (classroom)*

This course prepares the student for the responsibilities of the incident commander. These are: to conduct the three phases of size-up, prepare for a logical expansion of an incident, select the appropriate strategy based upon risk/benefit analysis and available resources, carry out (in a scenario) the six steps required to implement the tactical action model and conduct appropriate apparatus placement. Also covered are indications of structural stability and instability, and the actions a fire officer must take to ensure fire fighter safety.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	Fire Fighter Level I & II
<b>Presentation:</b>	Classroom Format: 5 days plus 2 evaluation days
<b>Certification:</b>	Certificate of Achievement

## Fire Service Instructor I

*S101 (classroom)*

This course will introduce the student to the techniques required to deliver a course from a prepared lesson plan. Students will be exposed to training aids, evaluation instruments and methods of establishing a proper learning environment. Students will also explore record keeping techniques. This course is accredited by IFSAC in compliance with NFPA 1041 Standard, (2002 ed.).

<b>Credits:</b>	1.0
<b>Presentation:</b>	Classroom Format: 2 days plus pre-course assignment and evaluation
<b>Certification:</b>	Certificate of Achievement (Accredited)

Note: See page 54 for a more detailed description of this course.

## Fire Officer II

Prerequisites for certification to Fire Officer II: Fire Officer I

### Fire Prevention Management

*F150 (distance education)/FC150 (classroom)*

This course will introduce the student to management techniques useful in developing the fire prevention function within a fire department. Managing in-service inspections and the management of fire investigation will also be explored.

<b>Credits:</b>	3.0
<b>Presentation:</b>	Classroom Format: 5 days

**Fire Suppression Management***F155 (distance education)/FC156 (classroom)*

This course will introduce the student to the relationships among fire risks, fire flows, personnel requirements, and pre-fire plans. Emphasis will be placed on the planning necessary prior to the sounding of the alarm. Please note: this is not a course on incident command.

**Credits:** 3.0  
**Presentation:** Classroom Format: 5 days

**Emergency Scene Management II***F160 (classroom)*

This course prepares students to manage a major incident requiring a complex command staff and a number of divisional officers who report to the commander. Included in the course are sessions on Incident Safety Officer and Hazardous Materials On-Scene Incident Commander.

**Credits:** 2.0  
**Prerequisites:** Emergency Scene Management I  
**Presentation:** Classroom Format: 5 days plus a 1.5-hour evaluation  
**Certification:** Certificate of Achievement

This course also satisfies the requirements of the Incident Safety Officer.

**Fire Service Instructor II***S102 (classroom)*

This course exposes the student to the scheduling, budget, records and reports, and instructor evaluation requirements of a Training Officer. Fire Service Instructor II will explore the elements of instructional development, delivery, course evaluations and test analysis. This course is accredited by IFSAC in compliance with NFPA 1041 Standard, (2002 ed.).

**Credits:** 1.0  
**Prerequisites:** Fire Service Instructor I  
**Presentation:** Classroom Format: 2 days plus a pre-course assignment and evaluation  
**Certification:** Certificate of Achievement (Accredited)

Note: See page 55 for a more detailed description of this course.

**Fire and Life Safety Educator I***F276*

This course is intended primarily for those people associated with the Fire Service in British Columbia and who have responsibility for, or an interest in, providing safety education to a wide range of people in their community.

*continued on page 30*

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Fire Service Instructor I is a co-requisite with this course and is required for full certification to NFPA 1035. Students without Fire Service Instructor I may take the course without certification and obtain a certificate of attendance.
<b>Presentation:</b>	Classroom Format: 2 days plus pre-course assignments
<b>Certification:</b>	Certificate of Achievement (Accredited) When taken in combination with the Fire Service Instructor I, Fire & Life Safety Educator I meets the requirements of the National Fire Protection Agency (NFPA) 1035 Standard (2000 Edition). Based on the NFPA 1035 Standard, this course satisfies the requirements for accreditation by the IFSAC and ProBoard.

Note: See page 53 for a more detailed description of this course.

### Fire Officer III

**Prerequisites for certification to Fire Officer III:** Fire Officer II

With the exception of F230 – Emergency Scene Management III, all Fire Officer III and IV courses are currently offered via distance education only. Watch our website at [www.jibc.bc.ca/fire](http://www.jibc.bc.ca/fire) for announcements of classroom and on-line versions of these courses. For more information please phone 604-528-5657.

#### Communications: Study Skills

*F205*

This course introduces adult learners to the teaching and learning expectations of the Justice Institute of BC. It includes a review of writing skills, concentrating on how to write papers, and a discussion of effective study skill techniques for distance learners. Please note that this course will become part of Fire Officer I in September 2006.

**Credits:** 3.0

#### Organizational Behaviour

*F210*

This course examines some of the basic concepts and principles of management and public administration. It provides an approach to such processes as planning, organizing, and controlling. It will address issues such as delegation of authority and organizational design and motivation.

**Credits:** 3.0

#### Personnel Management in the Fire Service I

*F215*

This course emphasizes personnel selection and the impact of the expanding role of the career fire fighter. It also examines the recruitment and retention of volunteer fire fighters.

**Credits:** 3.0

**Fire Service Strategic Planning I***F220*

This course will look at master planning as a concept which ties together the diverse elements of a fire department into a viable fire service system. It will provide clear understanding of the principles and concepts of master planning and will help students apply these concepts in their department.

**Credits:** 3.0

**Municipal Finance***F225*

This course examines the reasons for financial planning with particular application to the fire department budget. The budget cycle is examined and a brief introduction to public accounting is made. The module proceeds to examine sources of municipal revenue and the criteria to evaluate the effect of these sources on the community. The module ends with a more detailed presentation of municipal expenditures.

**Credits:** 3.0

**Emergency Scene Management III***F230 (classroom)*

In this course students will learn how to apply and use the Incident Command System for managing an emergency incident. Students work from a command post setting within a unified command structure on planning, implementing, managing and evaluating response to incidents that require multi-agency planning, deployment and operations. Students will also examine laws and standards that mandate an organized approach to managing emergency incidents, the elements and components of an effective emergency management system and a fire department's capability to implement an emergency management system.

**Credits:** 2.0  
**Prerequisites:** Emergency Scene Management II  
**Presentation:** Classroom Format: 5 days plus a 3-hour evaluation  
**Certification:** Certificate of Achievement

## Fire Officer IV

Prerequisites for certification to Fire Officer IV: Fire Officer III

### Fire Service Law

*F250*

This course introduces fire officers to principles of law. Topics covered include tort law, particularly the lawsuits arising against fire departments, and criminal law as it applies to arson.

Credits: 3.0

### Program Evaluation & Statistics

*F255*

This course is designed to help the student select research consultants who engage in comparative research, evaluation research or survey research for the fire service. The student is introduced to issues of research design and evaluation in the first lesson. The second lesson explores measures of central tendency and dispersion. The third lesson introduces simple correlation and regression. The final lesson introduces multiple regression.

Credits: 3.0

### Government Organization & Structure

*F260*

This course provides an overview of the three levels of government in Canada and analyzes their organizations and structures. Particular attention is paid to the relationship between parliamentary democracy and decision-making at each level of government.

Credits: 3.0

### Personnel Management in the Fire Service II

*F265*

This course emphasizes the effect of critical incident stress on fire fighters, and the ways to address this problem. It also emphasizes labour management relations by focusing on the collective bargaining process and the administration of the collective agreement.

Credits: 3.0

### Master Planning

*F270*

This course is a major planning project prepared under the direction of an instructor.

Credits: 3.0

## **Municipal Emergency Preparedness Plan**

*F275*

This workshop exposes students to the elements of a Municipal Emergency Management Plan, and enables students to develop an understanding of the Fire Service role in the Municipal Emergency Plan. Equivalency for this course can be gained through Emergency Management Division's EM723 Planning Process. Contact Geoff Burston at 604-528-5679 or [gburston@jibc.bc.ca](mailto:gburston@jibc.bc.ca) for details.

Credits: 1.0

## **Senior Leaders Course**

*F280*

In this course, students will build on skills and knowledge acquired in previous courses to further enhance their leadership and management proficiency and to respond more effectively to department, community and government priorities. The course features two main components. In the first, students participate in a 360 degree analysis of their skills and abilities, and develop and implement an action plan based on their findings. In the second part of the course students meet with senior civic administrators to hear about issues they are dealing with at the municipal level and to get their perspective on issues that directly affect the fire service.

Credits: 1.5

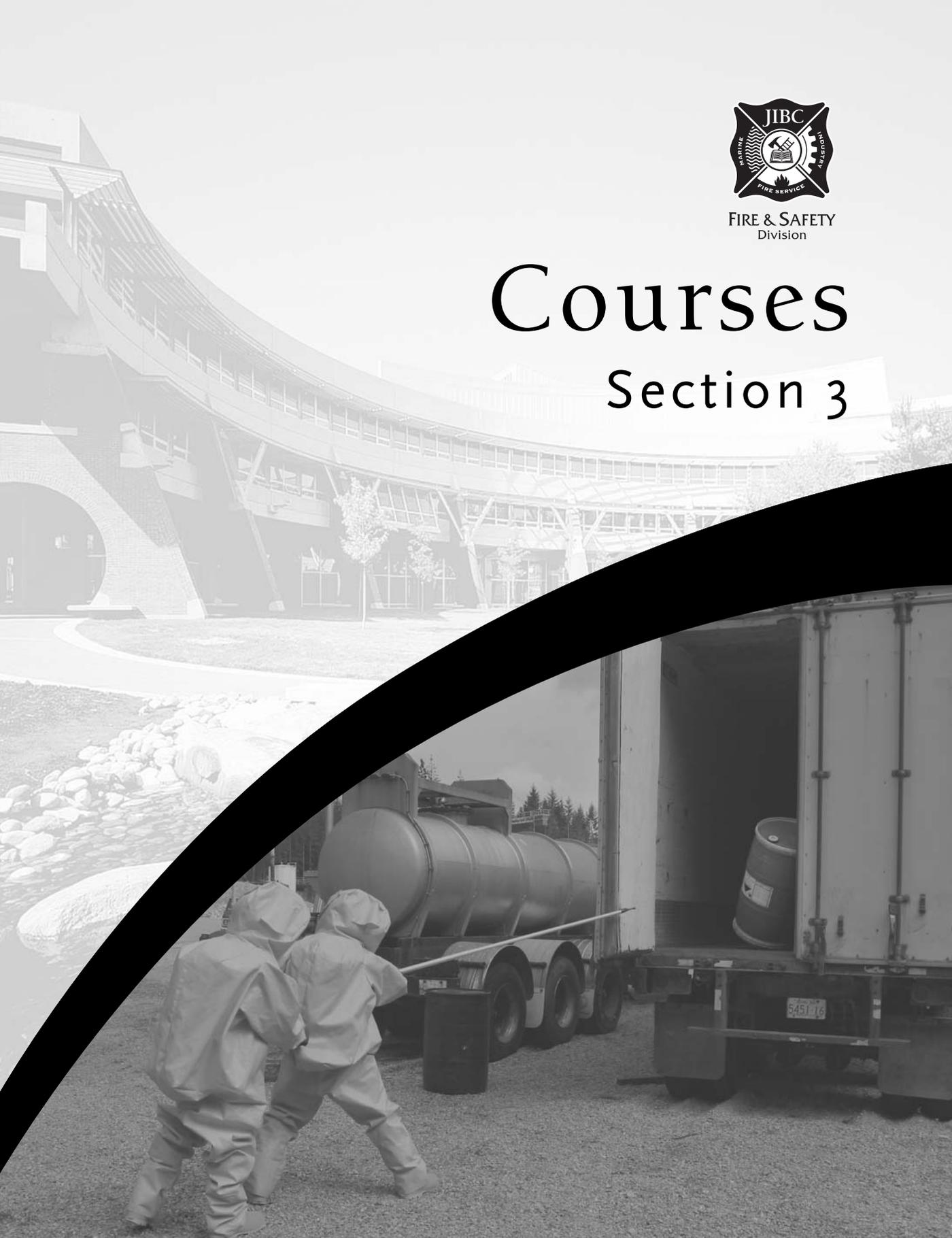
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FIRE & SAFETY  
Division

# Courses

## Section 3



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## Airport Emergency Response

new

### AIRCRAFT EMERGENCY RESPONSE AWARENESS



This site specific two-day course designed for structural fire department personnel who may be called upon to provide suppression/control to an aircraft incident. Topics include airframe familiarization, aircraft construction, aircraft systems, extinguishing agents, fire fighting and rescue procedures and tactics, brake fires, communications, biological hazards, and specialty aircraft. For more information regarding the scope, availability and cost of this program, contact TLC Fire Services Inc. Tel/Fax: 604-290-6090, email: tlcfire@telus.net. The Fire & Safety Division provides certification for this program following successful completion of a written exam.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Confirmation from the Department Fire Chief or supervisor on competency in the following subjects: safety and orientation, ladders, fire streams, fire hose and appliances, fire behavior, SCBA, ventilation and rescue
<b>Presentation:</b>	Classroom
<b>Location:</b>	Client site 604-290-6090
<b>Certification:</b>	Certificate of Achievement

new

### EMERGENCY RESPONSE INVOLVING DOWNED AIRCRAFT



This hot fire training session will challenge the student to develop competency and proficiency in: hose handling, water and foam management techniques, plus isolation and exposure protection in an aircraft rescue environment. Specific hazards will be identified and students will be given the opportunity to combat and extinguish a 3 dimensional fuel fire using a variety of extinguishing agents. This course meets the recertification requirements according to Transport Canada guidelines for Airport Fire Fighters. We are in the process of achieving NPFA 1003 compliance.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	Confirmation from the Department Fire Chief or supervisor on competency in the following subjects: safety and orientation, ladders, fire streams, fire hose and appliances, fire behavior, SCBA, ventilation and rescue
<b>Presentation:</b>	Classroom and field exercises
<b>Location:</b>	JIBC Maple Ridge Campus or the Prince George Airport
<b>Certification:</b>	Certificate of Achievement

## Apparatus Training Courses

FS180

### EMERGENCY VEHICLE DRIVER TRAINING (EVD)



This one-day course combines fire apparatus hands-on driver training and classroom theory. Training is conducted at the Boundary Bay Airport which is a restricted and controlled training site. The course is designed to introduce students to the practical driving requirements of Chapter Two of NFPA 1002 standard. This program focuses on defensive driving techniques, vehicle reference points, and the legal aspects of Section 122 of the Motor Vehicle Act. The course is scheduled upon client request.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	Class 5 driver's license with air brake endorsement
<b>Presentation:</b>	1 day – Classroom and hands-on practical
<b>Location:</b>	Boundary Bay Airport, Delta or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

FS181

### EMERGENCY VEHICLE OPERATION (EVO)



This course is designed to educate and evaluate Driver/Operators in the use of Fire Department Pumping Apparatus. It is accredited by IFSAC and meets the NFPA 1002 Standard. Students will receive interactive training in preventative maintenance, vehicle maneuvering, driving/operating, water supply, relay pumping, foam production and drafting. A written and practical evaluation is required to ensure NFPA Standards are achieved. Successful students will have an appropriate mix of theoretical knowledge and practical skills to ensure the apparatus and personnel get to the scene safely and that the apparatus is utilized to its fullest potential. This program is designed to be delivered in-house by department instructors. Fire & Safety Division evaluators will conduct evaluations. The course is scheduled upon client request.

<b>Credits:</b>	3.0
<b>Prerequisites:</b>	Basic knowledge of pumps and hydraulics and a class 5 drivers license with air brakes. Completion of the pre-reading requirement.
<b>Presentation:</b>	In-house instruction/Fire & Safety Division evaluation
<b>Location:</b>	Client site
<b>Certification:</b>	Certificate of Achievement, (Accredited)
<b>Recommended Text:</b>	Pumping Apparatus: Driver/Operator Handbook



FS183

**PUMPS AND PUMPING**

In this course the student will receive hands-on training in the use of vehicle mounted pumps. Through classroom instruction combined with hands-on training students will learn: vehicle maintenance; field hydraulics; driver responsibilities. The student will be challenged with a variety of pumping scenarios.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	Valid driver's license with Air Brake Endorsement
<b>Presentation:</b>	4 days – Classroom lecture and practical exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

## Emergency Scene Management Courses

F120 (classroom)

**EMERGENCY SCENE MANAGEMENT I**

This course prepares the student for the responsibilities of the incident commander. These are: to conduct the three phases of size-up, prepare for a logical expansion of an incident, select the appropriate strategy based upon risk/benefit analysis and available resources, carry out (in a scenario) the six steps required to implement the tactical action model and conduct appropriate apparatus placement. Also covered are indications of structural stability and instability, and the actions a fire officer must take to ensure fire fighter safety.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	Fire Fighter Level I & II
<b>Presentation:</b>	Classroom Format: 5 days plus 2 evaluation days
<b>Location:</b>	New Westminster Campus or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement

F160 (classroom)

**EMERGENCY SCENE MANAGEMENT II**

This course prepares students to manage a major incident requiring a complex command staff and a number of divisional officers who report to the commander. Included in the course are sessions on Incident Safety Officer and Hazardous Materials On-Scene Incident Commander.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	Emergency Scene Management I
<b>Presentation:</b>	Classroom Format: 5 days plus a 1.5-hour evaluation
<b>Location:</b>	New Westminster Campus or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement

This course also satisfies the requirements of the Incident Safety Officer.

F230 (classroom)

## EMERGENCY SCENE MANAGEMENT III



In this course students will learn how to apply and use the Incident Command System for managing an emergency incident. Students work from a command post setting within a unified command structure on planning, implementing, managing and evaluating response to incidents that require multi-agency planning, deployment and operations. Students will also examine laws and standards that mandate an organized approach to managing emergency incidents, the elements and components of an effective emergency management system and a fire department's capability to implement an emergency management system.

- Credits:** 2.0
- Prerequisites:** Emergency Scene Management II
- Presentation:** Classroom Format: 5 days plus a 3-hour evaluation
- Location:** New Westminster Campus or client site 604-528-5657
- Certification:** Certificate of Achievement

## Fire Fighting Courses

revised FS184

## FIRE AND STRUCTURAL INTEGRITY



This one-day course is offered to individuals who require a better understanding of how structures react under fire conditions. Concepts include common construction methods, fire growth and fire spread in structures, effects of fire on common building materials, and building collapse identifiers and strategies.

Note: This course is offered by contract only.

- Credits:** 0.5
- Prerequisites:** None
- Presentation:** 1 day – Classroom lecture and demonstration
- Location:** Maple Ridge or client site 604-462-1000
- Certification:** Record of Attendance
- Recommended Text:** Essentials of Fire Fighting & Building Construction Related to the Fire Service



revised FS185

**INCIDENT SAFETY OFFICER**

This course is designed to provide the skills to function efficiently as a Safety Officer in emergency incident operations. The primary focus will be on developing decision-making skills through recognition of cues that affect personnel safety while responding to an incident. As this is an incident-specific, scene-oriented course, designed to teach what a Safety Officer needs to know, there will be use of hands-on and table-top scenarios to convey instructional points. This course is in compliance with NFPA 1521.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Experienced fire fighters or industrial fire brigade members
<b>Presentation:</b>	2 days – Classroom lecture and interactive scenarios
<b>Location:</b>	Maple Ridge or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement (Accredited)
<b>Recommended Text:</b>	Fire Department Safety Officer



revised FS171

**LIVE FIRE – LEVEL I**

A fire fighter completing Level I will have the appropriate mix of theoretical knowledge and practical skills and techniques to function effectively and safely as an integral member of a fire fighting team when engaged in fire suppression activities. Participants will develop the following practical skills and techniques for structural fires, interior/exterior attacks and ventilation: Class A materials - exterior, combustible liquid, vehicle fires, storage containers, class A materials interior. This course is in conformance with NFPA 1001.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Confirmation from the department fire chief or supervisor on competency in the following subjects: safety and orientation, ladders, fire streams, fire hose and appliances, fire behavior, SCBA, ventilation and rescue
<b>Presentation:</b>	2 days – Classroom and field exercises
<b>Location:</b>	Maple Ridge Campus or TBA 604-462-1000
<b>Certification:</b>	Certificate of Achievement

revised FS172

**LIVE FIRE – LEVEL II**

A fire fighter completing this level will develop practical skills and techniques to extinguish and control the following: an exterior combustible liquids fire of at least 100 sq. ft. (9m<sup>2</sup>) using a foam fire stream; a fire in an elevated location within a structure (e.g. upper level, attic); a hidden fire within a structure (e.g. within walls, crawl spaces); a fire involving energized electrical components; a fire involving a flammable gas cylinder; a fire in a below-grade or other location requiring initial attack from above. This course is in conformance with NFPA 1001.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Live Fire Level I
<b>Presentation:</b>	2 days – Classroom lecture and field exercises
<b>Location:</b>	Maple Ridge Campus or TBA 604-462-1000
<b>Certification:</b>	Certificate of Achievement

revised FS173

## LIVE FIRE – LEVEL III



This level is designed to enhance the skills, knowledge and safety of the fire fighter. The course introduces the fire fighter to working in the role of an incident commander. The Incident Commander will size up emergency scenes and formulate strategic goals and tactical objectives. Participants will apply the Incident Command System (ICS) using passport accountability to live fire scenarios.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Senior fire fighter with Live Fire Level II
<b>Presentation:</b>	2 days – Classroom lecture and field exercises
<b>Location:</b>	Maple Ridge Campus or TBA 604-462-1000
<b>Certification:</b>	Certificate of Achievement

## LIVE FIRE SPECIAL



The objective of this course is to design live fire training scenarios which meet the specific needs of the individual Fire Department or Industrial Brigades. This scenario based training incorporates the client's operating guidelines and suppression techniques used by a Fire Department or industry while remaining within established standards and best practices guidelines.

<b>Credits:</b>	None
<b>Prerequisites:</b>	Confirmation from the Department Fire Chief on competency in the following subjects: safety and orientation, ladders, fire streams, fire hose and appliances, fire behaviour, SCBA, ventilation and rescue
<b>Presentation:</b>	Customized
<b>Location:</b>	Maple Ridge Campus or TBA 604-462-1000
<b>Certification:</b>	Record of Attendance

revised FS191

## RAPID INTERVENTION TEAM (RIT)



In this hands-on course, participants will obtain the knowledge, skills and abilities necessary to operate effectively both as a Rapid Intervention Team as well as an individual team member. Through interactive exercises this course will improve the effectiveness, efficiency and safety of the emergency personnel operating in an unpredictable emergency environment. This course will assist Rapid Intervention Teams, emergency departments and individual personnel in meeting legal and jurisdictional responsibilities.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	It is preferred that the candidate have an understanding of fire ground operations and methodology, be competent and experienced in PPE and SCBA and possess a knowledge of incident command system.
<b>Presentation:</b>	2 days at Maple Ridge Campus, 2 1/2 days at client site
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

revised FS186

**SHIPBOARD FIRE FIGHTING FOR THE LAND BASED FIRE FIGHTER**

This four-day course is based on the NFPA 1405 standard with additional Canadian content. Through shipboard visits, case studies and lectures by the senior fire fighters and ship's officers, the course provides information about shipboard fire fighting resources and the most successful techniques used to fight major fires on vessels and in marine terminals including dry-docks. Students will also have the opportunity to apply their knowledge and skills during practical exercises in a model port.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	None
<b>Presentation:</b>	Classroom and ship visits
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement
<b>Recommended Text:</b>	Marine Fire Fighting for Land-Based Fire Fighters



revised FS187

**STRATEGIES AND TACTICS**

Using video, computer simulation, and model towns, students will manage the attack and coordinate the suppression on several structure fires in buildings of various occupancies. This course is directed towards line fire fighters and officers. It addresses fire behaviour, scene management, ventilation techniques and methods of structural fire attack. The course objective is to incorporate fire control with an effective emergency scene management system. The course is scheduled upon client request.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Fire department personnel or industrial clients
<b>Presentation:</b>	2 days – Classroom theory and hands-on practical
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Record of Attendance
<b>Recommended Text:</b>	Fire Fighting Strategies and Tactics

revised FS160

**VEHICLE RESCUE – LEVEL I**

This course familiarizes the student with Accident Scene Management, Air Bag Technology, New Vehicle Construction and Design and Alternative Fuel Vehicles. Upon completion of this course the participant will possess the ability to recognize applicable hazards, properly use appropriate tools and equipment, and be able to demonstrate techniques necessary to safely and effectively support, and participate in vehicle extrication scenarios. This course is IFSAC accredited in compliance with NFPA 1006.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Able to vertically lift 75 pounds
<b>Presentation:</b>	2 days – Classroom lecture and hands-on practical exercises
<b>Location:</b>	Maple Ridge or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)
<b>Recommended Text:</b>	Principles of Vehicle Extrication



revised FS161

## VEHICLE RESCUE – LEVEL II



This course introduces the student to scene management and the Incident Command System (ICS). Scenario based training will give the student realistic experience, challenging the student to apply required skills and knowledge from Level I. This course is accredited by IFSAC in compliance with NFPA 1006.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Vehicle Rescue – Level I
<b>Presentation:</b>	2 days – Classroom lecture and scenario based training
<b>Location:</b>	Maple Ridge or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

## Forest Fire Suppression Courses

S100

### BASIC FIRE SUPPRESSION AND SAFETY



This course was developed by the BC Forest Service Protection Branch to meet regulatory requirements including WorkSafeBC, which states that all workers fighting forest fires must be trained and then retrained annually. This includes people who are hired to temporarily fight fires. This course covers: fire line safety, the fundamentals of fire fighting, fire behaviour and water delivery using portable pumps and gravity systems.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	1 day – Lectures, classroom and field exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

S215

### FIRE OPERATIONS IN THE WILDLAND URBAN INTERFACE (WUI)



Upon completion of this course, the participant will be able to size up and evaluate a potential WUI situation, deploy the necessary resources using safe and efficient strategies and tactics to minimize property damage. This course is designed for Fire Department personnel.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	S100
<b>Presentation:</b>	2 days – Lectures, classroom and field exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

## Fire Investigation Courses

new FPIN150

### FIRE INVESTIGATOR I – FIRE CAUSE AND ORIGIN



This course introduces students who are members of regulatory or enforcement agencies to fire investigation and the roles and responsibilities of the fire investigator. Students will examine the applicable legal and regulatory requirements, including relevant legislation and standards, and the relationship of the fire investigator with other entities involved in the investigation. Students will learn the fundamentals of fire science and causal factors in order to determine the origins and causes of fire and meet reporting requirements.

<b>Credits:</b>	1.5
<b>Prerequisites:</b>	Hazardous Materials Emergency Response Awareness
<b>Presentation:</b>	3 days classroom
<b>Location:</b>	New Westminster Campus
<b>Certification:</b>	Certificate of Achievement
<b>Recommended Text:</b>	NFPA 921 Guide for Fire and Explosion Investigations 2001 Edition and IFSTA "Fire Investigator" 1st Edition



## Hazardous Materials Courses

new FS121

### ATMOSPHERIC MONITORING



This course is designed for individuals who are required to operate atmospheric monitoring instruments, either in an industrial application or as emergency personnel, responding to Hazmat or Confined Space emergencies. In this course the theory of operation and care, maintenance and calibration of several types of instruments is covered in detail. Hands-on laboratory activities allow the students to practice conducting air sampling and formulate strategies required to mitigate an incident.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	None
<b>Presentation:</b>	2 days – Classroom lectures and hands-on practical exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

revised FS122

### HAZARDOUS MATERIALS EMERGENCY RESPONSE – SPILL CONTROL



This course focuses on safe emergency response procedures to control hazardous materials spills. The course will give the student the basic knowledge and skills necessary to respond safely, identify the hazard and perform appropriate spill control techniques. This course is scheduled upon client request and is customized to meet the client's requirements.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	Customized length, using lectures, classroom and field exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Record of Attendance

FS125

## HAZARDOUS MATERIALS EMERGENCY RESPONSE – AWARENESS



This course focuses on the recognition of a hazardous emergency, personnel safety, hazard assessment, and the notification of the emergency response team using safe, practical, defensive actions all of which are critical components required when dealing with a hazardous situation. Techniques learned are practiced in simulated emergencies where the Incident Command System (ICS) is introduced. This course is accredited by IFSAC and ProBoard in compliance to NFPA 472.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	1 day – Lectures, classroom and field exercises, or if combined with Hazmat Operations course, 5 days
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)
<b>Recommended Text:</b>	JIBC Hazardous Materials – Awareness, Student Study Guide

revised FS128

## HAZARDOUS MATERIALS EMERGENCY RESPONSE – OPERATIONS



This course is a necessity for employees of industries who manufacture, transport or store chemicals or other hazardous materials as well as fire and police personnel who respond to hazardous materials incidents including spills or drug labs. Through lectures, classroom and field exercises, students learn techniques to recognize, identify and assess degrees of risk involved with hazardous materials and their containers, appropriate safety precautions, selection of appropriate personal protective clothing, safe defensive control techniques to protect people, the environment and property, implementation of the Incident Command System (ICS) and the 8 Step Method of managing a hazardous materials incident. Through field scenarios, students employ classroom learning to respond to simulated incidents wearing all appropriate protective equipment and successfully demonstrate response management, and establishment of decontamination areas and procedures. This course is accredited by IFSAC and ProBoard in compliance with NFPA 472.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	IFSAC or ProBoard accredited Hazardous Materials Emergency Response – Awareness
<b>Presentation:</b>	4 days – Lectures, classroom and field exercises, or if combined with Hazmat Awareness course, 5 days
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)
<b>Recommended Text:</b>	JIBC Hazardous Materials – Operations, Student Study Guide

revised FS129

**HAZARDOUS MATERIALS EMERGENCY RESPONSE – TECHNICIAN**

This course is a necessity for responders from industry, fire, police and other personnel who could be required to manage a hazardous material emergency response, including conducting clandestine drug or explosive lab investigations. The Technician uses advanced control techniques and directs activities using the 8 Step Scene Management Process and the Incident Command System. Classroom discussions examine hazards and safe tactics for each DOT class, health and chemical hazard assessment using technical resources and monitoring equipment. Advanced scenarios use our railcar derailment, transport trailers, and other containers to teach and practice offensive control techniques for both high and low pressure containers. This course is accredited by IFSAC and ProBoard in compliance with NFPA 472.

<b>Credits:</b>	3.0
<b>Prerequisites:</b>	IFSAC or ProBoard accredited Hazardous Materials Emergency Response - Operations
<b>Presentation:</b>	5 days – Lectures, classroom and field exercises (plus 1 evening scenario)
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)
<b>Recommended Text:</b>	JIBC Hazardous Materials – Technician, Student Study Guide

NOTE: It is strongly recommended that the Hazmat Operations course be taken in conjunction with this course as the course content is closely blended to build on each other.

new FS137

**HAZARDOUS MATERIALS EMERGENCY RESPONSE FOR INCIDENT COMMANDERS – CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR TERRORISM**

This course provides the Incident Commander with the necessary tools to manage a hazmat incident. Exploration of public protection strategies, methods of interacting with other agencies and input into the hot zone plan are all core topics explored over the two day course. Special attention is also given to action planning and the unified command system. Skills are developed and applied using practical scenarios with tabletop models.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	It is strongly recommended that the participant have an IFSAC or ProBoard accredited Hazardous Materials Emergency Response – Technician level however we will accept IFSAC or ProBoard accredited Hazardous Materials Emergency Response – Operations and field experience.
<b>Presentation:</b>	2 days – Lectures, classroom and field exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

new FS136

## HAZARDOUS MATERIALS EMERGENCY RESPONSE – REFRESHER



This two-day refresher course begins with a review of the potential health and chemical hazards. From that point, training occurs mostly in the field and consists of scenarios that will challenge Hazmat personnel from both industry and the fire service. Using accessible reference materials and applicable rules and regulations the students will apply the Incident Command System in the mitigation of hazardous materials scenarios.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	It is strongly recommended that the participant have IFSAC or ProBoard accredited Hazardous Materials Emergency Response – Technician level however we will accept an IFSAC or ProBoard accredited Hazardous Materials Emergency Response – Operations.
<b>Presentation:</b>	2 days – Lectures, classroom and field exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement
<b>Recommended Text:</b>	JIBC Hazardous Materials – Technician, Student Study Guide

revised FS133

## RAIL TANK CAR SPECIALIST



This advanced course is for emergency response professionals who may respond to train derailments where hazardous materials are involved or who require in-depth understanding of a rail emergency. The course is five days of scenario-based training combining classroom instruction with hands-on practice and includes a night exercise. Students will learn: tank car anatomy; valves and possible problems; a systematic approach to damage assessment; transfers; grounding and bonding; flaring, capping, leak sealing and valve repairs. An introduction to the Incident Command System (ICS) with team organization including roles and responsibilities is also covered.

<b>Credits:</b>	3.0
<b>Prerequisites:</b>	JIBC Hazardous Materials Emergency Response – Operations or an accredited Hazardous Materials Emergency Response – Technician course from another training institution.
<b>Presentation:</b>	5 days – Classroom lectures and field exercises – including one night scenario
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

## Industry Courses

new FS189

### BUILDING CONSTRUCTION



This course provides an understanding of how various structures react under fire conditions and how to deal with them in a safe manner. Through lectures and field activities, participants will examine how structures react under fire conditions and explore the methods to deal with them in a safe manner. Topics covered include: common construction methods; building codes; fire separations; fire growth and fire spread in structures; effects of fire on common building materials; ventilation options and considerations; building collapse identifiers and strategies for dealing with the various types of structures.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	None
<b>Presentation:</b>	2 days – Classroom lecture and field exercises
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Certificate of Achievement

revised FS001

### FIRE SAFETY AND EXTINGUISHER TRAINING



This course will explain fire behaviour, the fire tetrahedron, extinguisher selection and application. It will also touch on fire safety at work and proper safety procedures to follow in the event of a fire. The course has valuable information for employees of service stations, school districts, hospitals, hospitality and transportation industries, long term care facilities, etc.

<b>Credits:</b>	None
<b>Prerequisites:</b>	None
<b>Presentation:</b>	4 hours – Classroom lecture and practical exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Record of Attendance

new FS190

### H<sub>2</sub>S SAFETY & RESPONSE



This course will ensure that the student will obtain thorough knowledge of Hydrogen Sulfide (H<sub>2</sub>S), its physical properties, hazards and the regulations surrounding it. In addition they will learn the proper ways of dealing with the gas releases in a safe and efficient manner including appropriate response procedures. (This program does not certify the individual as a qualified rescuer but centralizes the focus on a specific product, H<sub>2</sub>S.)

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	1 day – Classroom
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Certificate of Achievement

revised FS140

## INDUSTRIAL FIRE FIGHTER – INTRODUCTION



At the conclusion of this two-day program, the successful student will have the basic knowledge and skills required to become a valuable member of an Incipient Level Fire Brigade. Course content consists of fire extinguisher theory and practical evolutions, and self-contained breathing apparatus (SCBA), theory and practical evolutions. Instruction on fire extinguishers involves live fire in controlled settings. The course is scheduled upon client request.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	None
<b>Presentation:</b>	2 days – Classroom lectures and field exercises
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Certificate of Achievement

revised FS141

## INDUSTRIAL FIRE FIGHTING – LEVEL I



Upon successful completion of this course the participant will have the knowledge and skills required to be a competent member of an Industrial Fire Brigade Response Team. The course content includes: identification of fire hazard considerations, local regulations and brigade organization, fire behavior and chemistry of fire, hose systems, safety principles, SCBA and PPE utilization, identification of storage container characteristics, search and rescue, fire detection and alarm system, ladders, salvage and overhaul. This course is accredited by IFSAC and ProBoard in conformance to NFPA 1081.

<b>Credits:</b>	2.5
<b>Prerequisites:</b>	FS125 Hazardous Materials Response-Awareness
<b>Presentation:</b>	5 days – Classroom lectures and field exercises
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)
<b>Recommended Text:</b>	Industrial Fire Brigade Training: Incipient Level



revised FS142

## INDUSTRIAL FIRE FIGHTING – LEVEL II



This course builds on the skills and knowledge acquired in Level I and provides the participant with exposure to fires of an increased complexity. Through exposure to hands-on scenarios, theory and practice, the learner will develop the ability to master advanced exterior fires as a member of the Industrial Fire Brigade Team. The course covers the apparatus, techniques, and tools required in an industrial setting for a fire of this nature. This course is accredited by IFSAC and ProBoard compliance to NFPA 1081.

<b>Credits:</b>	2.5
<b>Prerequisites:</b>	Industrial Fire Fighting – Level I that meets the requirements of Chapter 5 of NFPA 1081
<b>Presentation:</b>	5 days – Classroom lectures, field exercise and live fire training
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

revised FS143

**INDUSTRIAL FIRE FIGHTING – LEVEL III**

This course provides the student with the opportunity to advance the skills obtained in Levels I and II in order to safely mitigate a response to an interior structural fire. Through exposure to hands-on scenarios, theory and practice, the learner will develop the ability to master an interior structural fire as a member of the Industrial Fire Brigade Team. This course covers the apparatus, techniques, and tools required in an industrial setting for a fire of this nature. This course is accredited by IFSAC and ProBoard in compliance to NFPA 1081.

<b>Credits:</b>	2.5
<b>Prerequisites:</b>	Industrial Fire Fighting – Level II that meets the requirements of Chapter 6 of NFPA 1081
<b>Presentation:</b>	5 days – Classroom lectures, field exercise and live fire training
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

FS144

**INDUSTRIAL FIRE FIGHTING – BRIGADE TEAM LEADER**

Upon successful completion of this five-day course the student will have the knowledge and skills required to effectively establish command, use Emergency Response Procedures and oversee the Emergency Response of an Industrial Fire Brigade. This course also explores the underlying management and leadership skills required by the team leader away from emergency situations. This course is accredited by IFSAC and ProBoard in compliance to NFPA 1081.

<b>Credits:</b>	2.5
<b>Prerequisites:</b>	Industrial Fire Fighting – Level III that meets the requirements of Chapter 7 of NFPA 1081
<b>Presentation:</b>	5 days – Classroom lectures, field exercise and live fire training
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

FS148

**REFINERY FIRE FIGHTER – LEVEL I**

A review of fire theory and behaviour, classes of fire, extinguisher use and plant emergency procedures is followed by field exercises with extinguisher or foam. Individual and team exercises are performed. A classroom review of BLEVE hazard is followed by field exercises on propane fires.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	Letter of recommendation from manager or supervisor
<b>Presentation:</b>	1 day – Classroom lecture and field exercises
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Record of Attendance

FS149

**REFINERY FIRE FIGHTER – LEVEL II**



A review of SCBA, ICS and team response to fires is followed by field exercises on propane, gasoline (flange fires) and diesel fires. Students use extinguishers, in-line foam, hoses and wheeled units while responding in full turnout gear (including SCBA). Opportunity is given for team leaders to control their members during exercises under the instructor's supervision. The course is scheduled upon client request.

- Credits:** 0.5
- Prerequisites:** Refinery Fire Fighter – Level I
- Presentation:** 1 day – Classroom lecture and field exercises
- Location:** Maple Ridge Campus 604-462-1000
- Certification:** Record of Attendance

## Fire Protection Courses

FIP100

**FIRE INSPECTOR I**



The Justice Institute has partnered with the NFPA to deliver the Fire Inspector I course. The goals of this course are to:

- Enhance professionalism within the fire inspection industry.
- Recognize and provide evidence of competence as related to NFPA 1031.
- Ensure proficiency in the use of codes and standards.

This course is in three phases:

**Phase I: Preparation for a Written Examination**

This is done through a 42-hour classroom session.

**Phase II: The Written Examination**

This four-hour examination is designed to evaluate a student's knowledge of fire inspection principles and code application at the level of NFPA Fire Inspector I. The examination is provided by and marked by NFPA. The Justice Institute is responsible for administration and proctoring of the examination.

**Phase III: The Practicum**

If successful in the written examination, the student is eligible to continue to the Practicum phase. This is designed to ensure that an individual has experience in a particular field prior to becoming certified. The student is provided with workbooks and checklists for thirteen target occupancies, of which they must select seven (these must include a sprinklered facility and a commercial kitchen facility). Once completed, the checklists are forwarded to the NFPA via the Justice Institute for review and acceptance.

All BC applicants register through the Fire & Safety Division. Upon successful completion of the course, students receive a joint NFPA/Justice Institute certificate. This course is accredited by IFSAC and ProBoard in compliance with NFPA 1031

- Credits:** 3
- Prerequisites:** None
- Presentation:** Classroom Format: 6 days
- Location:** New Westminster Campus or client site 604-528-5657
- Certification:** Certificate of Achievement (Accredited)

FIP200

**FIRE INSPECTOR II**

This course builds on the skills and knowledge developed in the Fire Inspector I (FIP100), to achieve Level II of the most current NFPA 1031 Standard.

As with Inspector I, this course is accredited by both IFSAC and ProBoard, and successful candidates receive a joint certificate from the NFPA and the Justice Institute of BC, bearing an accreditation seal.

**This course is in three phases:**

**Phase I: Preparation for a Written Examination**

The course is 42 hours of in-class instruction. The delivery methodology is largely based on case studies. This is followed by a written examination. Topics covered include:

- **Administration:** This duty involves research, interpretation of codes, implementing policy, testifying at legal proceedings, and creating forms and job aids.
- **Field Inspection:** This duty involves code enforcement, inspections and analyses of new and existing structures and properties for construction, occupancy, fire protection and exposures.
- **Plan Review:** This duty involves field verifications of shop drawings, plans and construction documents to ensure that they meet the intent of applicable codes and standards for fire and life safety.

**Phase II: The Written Examination**

This four-hour examination is designed to evaluate a student's knowledge of fire inspection principles and code application at the level of NFPA Fire Inspector II. The examination is provided by and marked by NFPA. The Justice Institute is responsible for administration and proctoring of the examination.

**Phase III: The Practicum**

If successful in the written examination, the student is eligible to continue to the Practicum Phase. This is to provide the student with an opportunity to demonstrate the application of the skills and knowledge that are used on the job through actual field inspections.

Following the written examination, the candidates conduct five inspections, comprising two site plans and three fire plans.

<b>Credits:</b>	3.0
<b>Prerequisites:</b>	Fire Inspector I (FIP100)
<b>Presentation:</b>	Classroom Format: 6 days
<b>Location:</b>	New Westminster Campus or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement (IFSAC Accredited)

FIP150

**PLAN EXAMINER I**

The Plan Examiner I course is a partnership between the Justice Institute and the NFPA. The process for completing the courses (listed below) is similar to Fire Inspector I FIP100 (please refer to previous page).

Although not a requirement, it is recommended that students take BC Fire Code I and BC Building Code I in conjunction with Plan Examiner I.

This Plan Examiner I course, together with BC Fire Code I (see page 53), and BC Building Code I extends the knowledge gained from Fire Inspector I and develops the requisite knowledge for the inspection function. It introduces or refreshes the fire plan examiner with regard to practices, principles and theory.

**This course is in three phases:**

**Phase I: Preparation for a Written Examination (6 days)**

This is a 42-hour classroom course which prepares the student for the written examination.

**Phase II: The Written Examination (1 day)**

Before taking the exam, students get the opportunity to review the course materials. Following this review the four-hour examination is designed to evaluate a student's knowledge of principles and code application at the level of NFPA Fire Plan Examiner I. The examination is provided by and marked by NFPA. The Justice Institute is responsible for the administration and proctoring of the examination.

**Phase III: The Practicum**

Following the written examination, students are led through a series of practical applications. The exercises and materials produced by the students as part of the evaluation are submitted, via the Justice Institute, to the NFPA for review.

All BC applicants register through the Fire & Safety Division. Upon successful completion of the course, students receive a joint NFPA/Justice Institute certificate. This course is accredited by IFSAC and ProBoard in compliance with NFPA 1031.

<b>Credits:</b>	3.0
<b>Prerequisites:</b>	Fire Inspector I (FIP100)
<b>Presentation:</b>	Classroom Format: 6 days
<b>Location:</b>	New Westminster Campus or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement (Accredited)

FIP160

**BC FIRE CODE I**

This three-day course introduces students to the Fire Services Act, various parts of the BC Fire Code, relevant referenced standards and city by-laws. The parts of the fire code covered are:

Part 1: Applications and Definitions

Part 2: Building and Occupant Safety

Part 3: Industrial and Commercial Occupancies

Part 4: Flammable and Combustible Liquids

Part 5: Hazardous Materials, Processes and Operations

Part 6: Fire Protection Equipment (Introduction)

Part 7: Inspector Testing and Maintenance of Fire Emergency Systems in High Buildings

<b>Credits:</b>	1.5
<b>Prerequisites:</b>	Fire Inspector I, Plan Examiner I recommended
<b>Presentation:</b>	Classroom Format: 3 days
<b>Location:</b>	New Westminster Campus or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement

FIP170

**BC BUILDING CODE I**

This one-day course extends the knowledge gained from the previous study to develop knowledge of the standards and codes as they relate within the Province of British Columbia. It is recommended that this course be taken in conjunction with Plan Examiner I (FIP150) and BC Fire Code I (FIP160).

<b>Credits:</b>	0.5
<b>Presentation:</b>	Classroom Format: 1 day
<b>Location:</b>	New Westminster Campus or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement

F276

**FIRE AND LIFE SAFETY EDUCATOR I**

This course is intended primarily for those people associated with the Fire Service in British Columbia and who have responsibility for, or an interest in, providing safety education to a wide range of people in their community.

The course covers:

- The administration of the public education function, including the use of forms, reporting procedures, scheduling activities and report writing and record maintenance.
- The planning and development function, including communities and organizations, fire and life safety issues, the leading types of injuries in your community.
- The different strategies which can be used in education and fire prevention, together with the learning characteristics of varied audiences and appropriate instructional material, depending on the target population of the group being taught.

*continued on page 54*

- Maintaining safety during fire and life safety education activities, given a lesson plan and list of equipment, so that public fire and life safety activities are conducted with out injury to educator or students.
- Presentation of a lesson, given a lesson plan with multiple presentation methods, evaluation instruments, a time allotment, setting and identified audience, so that the lesson plan is followed and the objectives are met.
- Notifying the public, given a scheduled event, so that the location, date, time, topic and sponsoring agency are included.
- Distribution of educational information, given material, a specified audience and time frame, so that the information reaches the audience within the specified time.
- Administration of an evaluation instrument, given the appropriate evaluation instrument and testing policies and procedures, so that lesson outcomes are known.
- Scoring an evaluation instrument, given the scoring procedures and grading scale, so that lesson outcomes are known.

The overall goal of the course is to provide students with the skills and knowledge needed to plan and deliver sound education in fire and life safety. Once these competencies have been mastered, students confidence will increase and you will find the role will be much easier to carry out.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Fire Service Instructor I is a co-requisite with this course and is required for full certification to NFPA 1035. Students without Fire Service Instructor I may take the course without certification.
<b>Presentation:</b>	Classroom Format: 2 days plus pre-course assignments
<b>Certification:</b>	Certificate of Achievement (Accredited). When taken in combination with the Fire Service Instructor I, Fire and Life Safety Educator I meets the requirements of the National Fire Protection Agency (NFPA) 1035 Standard (2000 Edition). Based on the NFPA 1035 Standard, this course satisfies the requirements for accreditation by the IFSAC and ProBoard.

## Instructor Courses

Note: The Fire & Safety Division encourages fire departments to host the Fire Service Instructor Courses. Please contact the Fire & Safety Division New Westminster Campus at 604-528-5657 for procedures on hosting this course.

S101

### FIRE SERVICE INSTRUCTOR I



This IFSAC and ProBoard accredited course emphasizes instructional and evaluation methods and techniques that can be used to present skills and information from prepared materials. This course meets Level I of the National Fire Protection Association (NFPA) 1041 (2002 ed.) Standard by providing the instructor with the knowledge and ability to:

- Deliver instruction effectively from a prepared lesson plan, including instructional aids and evaluation instruments,
- Adapt lesson plans to the unique requirement of the students and authority having jurisdiction,

*continued on page 55*

- Organize the learning environment so that learning is maximized,
- Meet the record-keeping requirements of authority having jurisdiction.

**Pre-assignment Component:** Prior to attending the classroom session, the student spends approximately 16 hours reviewing and preparing materials. This includes reading and completing a student workbook and assembling prepared materials from their own Fire Department.

**Classroom Component:** Having reviewed and prepared pre-course materials, the students participate in a two-and-a-half day classroom session where they adapt the prepared materials for delivery.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	None
<b>Presentation:</b>	Classroom format: 2.5 days plus pre-course assignment and evaluation
<b>Certification:</b>	Certificate of Achievement (Accredited).

S102

## FIRE SERVICE INSTRUCTOR II



This IFSAC and ProBoard accredited course emphasizes program management, lesson development and implementation of instruments for the evaluation of subordinate instructors. It is the Level II of the National Fire Protection Association (NFPA) 1041 standard (2002 ed.).

**Pre-assignment Component:** Prior to attending the classroom session, the students spend approximately 16 hours reviewing and preparing materials. This includes reading and completing the provided Student Workbook and assembling prepared materials from their own Department.

**Classroom Component:** Having reviewed and prepared pre-course materials, the students participate in a three-day classroom session, where they adapt the prepared materials for delivery and make major presentations.

Students also learn to perform evaluations of other instructors.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Fire Service Instructor I
<b>Presentation:</b>	Classroom format: 3 days plus a pre-course assignment
<b>Certification:</b>	Certificate of Achievement (Accredited)

Note: The Fire & Safety Division encourages fire departments to host the Fire Service Instructor Courses. Please contact the Fire & Safety Division at 604-528-5657 for procedures on hosting this course.

## Technical Rescue Courses

revised FS165

### CONFINED SPACE RESCUE – AWARENESS



Using a combination of classroom discussion and skill-based training, participants will develop the ability to initiate and conduct non-entry confined space rescue. Participants will gain insight into hazard identification, assessment and control, incident response, regulatory requirements for entry and rescue, first responders' roles and responsibilities, and limitations of standard and specialized confined space equipment. This course meets the training requirements for basic and general entry operations as determined by the WorkSafeBC of BC and NFPA 1670 Confined Space Rescue Awareness Level. It is accredited by IFSAC and ProBoard in compliance with NFPA 1006.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	None
<b>Presentation:</b>	1 day – Classroom lecture and field exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

new FS166

### CONFINED SPACE RESCUE – OPERATIONS



Utilizing a systematic approach to the rescue process, participants will gain the skills and knowledge to conduct rope-based rescue operations in a variety of confined space environments. To that end the mechanics of rope-based rescue systems will be explored emphasizing the selection, construction, proper use, and limitations of these systems in the industrial environment. In addition participants will gain practical experience and insight in the use of communication systems, technical resource material, patient packaging devices, atmospheric monitoring equipment, air sampling strategies, and strategies/tactics for successful emergency entry operations. It is accredited by IFSAC and ProBoard in compliance with NFPA 1006.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	Accredited Confined Space – Awareness
<b>Presentation:</b>	4 days – Classroom lecture and field exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

new FS167

**CONFINED SPACE RESCUE – TECHNICIAN**

Participants will acquire the skills and knowledge to safely and effectively coordinate, perform, and supervise a technical confined space rescue incident. To that end advanced concepts in incident command, rescue strategies and tactics, site management, team leadership, hazard mitigation, equipment and resource management, information gathering and utilization, advanced rescue techniques, technical rescue pre-planning and rescue scene management and termination will be explored and developed by the end of this course. This course is accredited by IFSAC and ProBoard in compliance with NFPA 1006.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	Accredited Confined Space-Operations. It is suggested that the participant also have accredited Technical High Angle Rope Rescue-Operations and Hazardous Materials Awareness.
<b>Presentation:</b>	4 days – Classroom lecture and field exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

**CONFINED SPACE RESCUE – REFRESHER**

This challenging two-day course is designed for students from industry and the fire service. Upon completion of the course students will be competent in all aspects of all equipment and procedures to properly effect a confined space rescue. The course is designed for students who have a basic understanding of atmospheric monitoring, industrial hygiene, and rope rescue techniques. The first day includes confined space awareness, hazard assessments and responsibilities, basic rope rescue procedures, victim packaging, atmospheric monitoring, SCBA and supplied air respirator training. On the second day students will apply the techniques and skills acquired from day one in vertical and horizontal confined space rescue scenarios. This course is also recommended as a refresher for students who require annual skills maintenance training as per WorkSafeBC. The course is scheduled upon client request.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Accredited Confined Space Rescue – Operations
<b>Presentation:</b>	2 days – Classroom lectures and field exercises
<b>Location:</b>	Annacis Island or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

FS070

**FALL PROTECTION**

This one-day course trains students in the fundamentals of fall protection and the safe use and limitations of personal fall protection equipment. Other areas covered include fall restraint and fall arrest anchor points, safety belts, harnesses and lanyards, and lifelines. This course has been designed in accordance with WorkSafeBC Regulations. The course is scheduled upon client request.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	1 day – Classroom lecture
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

FS150

## TECHNICAL LOW TO STEEP ANGLE ROPE RESCUE – AWARENESS AND OPERATIONS



This course will standardize embankment rescue and provide the foundation skills for students who would like to move into the operations and technician level courses. The course includes: ropes and knots, equipment familiarization, basic anchoring and rigging systems, rappelling, patient packaging and low angle/embankment rescue scenarios. The course consists of both classroom and field instruction. Students will be given a written and practical evaluation. Successful candidates will be certified to low angle technical rope rescue. This course is accredited by IFSAC and ProBoard in compliance with NFPA 1006.

<b>Credits:</b>	1.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	3 days – Classroom lectures and practical exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

FS151

## TECHNICAL HIGH ANGLE ROPE RESCUE – OPERATIONS



The operations level will include team-building roles and responsibilities, ascending and descending, line transfers, victim packaging, lowering systems, mechanical advantage systems, raising systems and team scenarios. Students will operate as an integral part of a team environment and will be directed and monitored by instructors acting as team leaders. Students will be given a written and practical evaluation. This course is accredited by IFSAC and ProBoard in compliance with NFPA 1006.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	Accredited Technical High Angle Rope Rescue – Awareness Level
<b>Presentation:</b>	4 days – Classroom lecture and practical exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

FS152

## TECHNICAL HIGH ANGLE ROPE RESCUE – TECHNICIAN



The technician level will require students to demonstrate skills, knowledge and techniques for hazard recognition, equipment use and procedures necessary to safely and effectively coordinate, perform and supervise a technical rescue incident in the high angle environment. The course consists mainly of field instruction and includes advanced anchoring systems, compound/complex mechanical advantage systems, line transfers, knot passing, highlines and a variety of technical scenarios. Students will be given a written and practical evaluation. This course is accredited by IFSAC and ProBoard in compliance with NFPA 1006.

<b>Credits:</b>	2.0
<b>Prerequisites:</b>	Accredited Technical High Angle Rope Rescue Operations
<b>Presentation:</b>	4 days – Classroom lecture and practical exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement (Accredited)

revised FS155

**INDUSTRIAL/HIGH ANGLE ROPE RESCUE**

This hands-on course provides the student with the skills and knowledge to act as a rescuer at a site where a tower crane is in use. Tower crane components, specialized technical rescue equipment and systems are covered in this course. Training occurs mostly in the field and consists of a variety of scenarios upon which proficiency evaluations are based.

<b>Credits:</b>	1.5
<b>Prerequisites:</b>	Accredited Technical High Angle Rope Rescue - Technician Level
<b>Presentation:</b>	3 days – Classroom lecture and practical exercises
<b>Location:</b>	Maple Ridge Campus or client site 604-462-1000
<b>Certification:</b>	Certificate of Achievement

new FS156

**TOWER CRANE REFRESHER**

This two-day refresher course includes a review of tower crane components, technical rescue equipment and systems. Training occurs mostly in the field and consists of a variety of scenarios upon which proficiency evaluations are based. Students will be challenged to develop and command their own scenarios. Students will be given both a written and a proficiency evaluation.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	Accredited Technical High Angle Rope Rescue - Technician Level
<b>Presentation:</b>	2 days – Classroom lecture and practical exercises
<b>Location:</b>	Maple Ridge Campus or regional locations TBA 604-462-1000
<b>Certification:</b>	Certificate of Achievement

## General Courses

DE00  
(distance  
education)/  
NC02  
(classroom)

**BASIC FIRE SCIENCE**

This course is designed for fire service personnel but is also applicable to non-fire service personnel who need a fundamental understanding of fire and flammable materials, and to members of the general public with an interest in this safety area. The course provides an introductory study of basic chemical and physical principles underlying fire and dangerous goods behaviour in emergency situations. Topics include vapour pressure and combustion, elements of fire suppression, and general methods of fire control. This course will be offered in classroom format if there is a sufficient demand. Basic Fire Science can be offered at other colleges around the Province.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	40 self-study hours or six 2 hour classroom sessions
<b>Certification:</b>	Certificate of Achievement

## BASIC ORIENTATION FOR NEW DEPARTMENTS



This course is designed to assist new volunteer fire departments in establishing safe and effective practices and procedures. Basic instruction is given on subjects including fire behaviour, self-contained breathing apparatus, hose and nozzle handling, pumps and water supplies, search techniques, and fire ground organization. Local fire department equipment and resources are used. The course is available to newly formed volunteer fire departments who have been recognized by the Office of the Fire Commissioner and have been issued a fire department code. Fire departments that are newly reorganized or have a large number of new recruits may also find this course of interest. A minimum equipment list is required to conduct the course:

- ULC rated pumper (minimum 420 IGPM);
- Capability to supply pumper capacity either from an in-ground water system or a portable water system;
- 2 1/2" attack lines with at least two constant flow nozzles;
- 1 1/2" attack lines with at least two constant flow nozzles;
- Adequate self-contained breathing apparatus to satisfy WorkSafeBC requirements (at least four complete units with four spare cylinders);
- Approved personal protective equipment for 10 fire fighters;
- Call-out system to alert the fire department in the event of an emergency.

<b>Credits:</b>	None
<b>Prerequisites:</b>	None
<b>Presentation:</b>	2 1/2 days – Classroom sessions and practical exercises
<b>Location:</b>	Local fire department 604-528-5657

new FS188

## EMPLOYABILITY SKILLS



This course will provide exposure to potential interview scenarios as well as guidelines for resume preparation and writing. Through role-playing scenarios, interview questions and responses will be explored to allow the student to practice the skills necessary to be successful in a face-to-face interview situation. Participants will have an opportunity to develop a completed, personal resume and obtain a basic understanding of the skills required to prepare for an interview. The participant will have been exposed to the philosophy of a fire officer who is responsible for recruitment and hiring. *This course is an elective only for students in the Industrial Emergency Responder Certificate Program.*

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	Classroom
<b>Location:</b>	Maple Ridge Campus 604-462-1000
<b>Certification:</b>	Record of Attendance

DE02  
(distance  
education)/  
NC06  
(classroom)



## FIRE SAFETY AT WORK

This course explores the nature of fire, common fuels, and ignition sources; hazards for each building type; fire prevention, fire drills, and using portable extinguishers; and a fire safety plan. After completing this course, students will be able to conduct basic fire prevention inspections, educate other employees on safe ways to respond to fire, lead fire drills, and prepare a full fire safety plan for any organization. Students are required to submit four written projects and pass a multiple choice exam to complete the course. The course will be offered in classroom format if there is sufficient demand. Fire Safety at Work can be offered at other colleges around BC. This course meets the interest of WCB-Part 4, but is not designed for professional or volunteer fire service personnel.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	40 self-study hours or six 2 hour classroom sessions
<b>Certification:</b>	Certificate of Achievement

DE06



## GENERAL PHYSICS

General Physics familiarizes the student with basic concepts of physics at a practical level. The topics include the physical phenomena of heat, motion, electricity, magnetism, light, sound, and radioactivity. Included in the course is a unit on the SI system of measurement with fire service related application and exercises. After completing the course students will have a more in-depth understanding of the principles of fire and combustion. The course will be offered in classroom format if there is sufficient demand and can be offered at other colleges around the Province.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	Suggested – Basic Fire Science or background in science
<b>Presentation:</b>	40 self-study hours or six 2 hour classroom sessions
<b>Certification:</b>	Certificate of Achievement

SITL100  
100



## INTRODUCTION TO SITUATIONAL LEADERSHIP®

Situational Leadership™ is a comprehensive, up-to-date and practical method of effectively managing and developing people, time and resources in the workplace. This one-day course introduces students to the basic situational leadership model and provides an opportunity to learn how to apply the model through case studies and exercises.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	None
<b>Presentation:</b>	1 day – Classroom lecture and exercises
<b>Location:</b>	New Westminster Campus or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement

FC106

## SITUATIONAL LEADERSHIP®



Situational Leadership™ is a comprehensive, up-to-date and practical method of effectively managing and developing people, time and resources in the workplace. This course introduces students to these methods and evaluates their learning of the principles.

<b>Credits:</b>	1.0
<b>Prerequisites:</b>	None
<b>Presentation:</b>	2 days – Classroom lecture, exercises and evaluation
<b>Location:</b>	New Westminster Campus or client site 604-528-5657
<b>Certification:</b>	Certificate of Achievement (This course is also a component of the Emergency Management Division Certificate Program)

*Situational Leadership® is a registered trademark of the Center of Leadership Studies*

DE05

## TECHNICAL MATH



This course presents the basic math skills needed for fire flow calculations, such as volume and surface area, and provides frequent opportunities to apply the information to practical situations. Units include whole numbers, fractions and decimals, percentages, averages, algebraic equations, powers and square roots, ratios and proportions, and measurements of length, area, and volume. The course will be offered in classroom format if there is sufficient demand and can be offered at other colleges around the Province.

<b>Credits:</b>	0.5
<b>Prerequisites:</b>	Basic mathematical skills
<b>Presentation:</b>	40 self-study hours or six 2 hour classroom sessions
<b>Certification:</b>	Certificate of Achievement

## Also of Interest

### CENTRE FOR CONFLICT RESOLUTION



Got Conflict? We can help. Courses offered at the Justice Institute of BC Centre for Conflict Resolution give you practical, hands-on tools to help you advance your career and give you a competitive edge in dealing with others. These courses are exceptional and provide great value for money. All courses are dynamic and interactive, with small class sizes and excellent student/instructor ratios, resulting in one-on-one personal development.

To find out more about the Centre for Conflict Resolution and the courses that we offer, check out our [website www.jibc.bc.ca/ccr](http://www.jibc.bc.ca/ccr) or call us at 1-888-799-0801

**CENTRE FOR LEADERSHIP AND COMMUNITY LEARNING****Critical Incident Stress Management**

The CISM Certificate program is offered through the Centre for Leadership and Community Learning at the Justice Institute of BC. This program is recommended for individuals who may be required to effectively manage critical incidents as well as to protect the emotional health and safety of those involved in a traumatic event. This program will be of specific interest to first line trauma responders such as firefighters, paramedics, crisis intervention workers and victim services workers.

This newly revised program consists of two blocks of training offered in one to three-day seminar formats. There are twelve days of classroom training.

**Block 1** combines knowledge of critical incident stress and trauma management with the skills necessary to participate in a critical incident stress intervention. At the completion of Block One, participants will receive a Letter of Acknowledgement verifying the hours completed and courses attended.

**Block 2** is specifically aimed at giving participants a broad range of knowledge and understanding of the diverse field of CIS and trauma management. Students must pass a written exam and an evaluation of their abilities upon completion of Block 2. With the successful completion of Block Two requirements, participants will receive a Certificate of Achievement for Blocks One and Two.

The Justice Institute of BC has received accreditation from the Association of Traumatic Stress Specialists. All instructors within the program are certified trauma specialists. For more information, please contact:

Sandra Rice  
Program Coordinator  
Telephone: 604-528-5633  
Email: [srice@jibc.bc.ca](mailto:srice@jibc.bc.ca)

Nenita Capili  
Program Assistant  
Telephone: 604-528-5631  
Email: [ncapili@jibc.bc.ca](mailto:ncapili@jibc.bc.ca)

**Master of Arts in Leadership Degree in Justice and Public Safety Leadership**

The Justice Institute of BC is pleased to partner with Royal Roads University in delivering a degree program for professionals working in the justice and public safety fields. This program provides a unique opportunity to develop and enhance your leadership skills within a flexible schedule that enables students to continue working in their chosen field. For further information on registration, please contact:

Michelle Tai, Senior Programs Liaison  
Royal Roads University  
Toll-free: 1.877.774.7272  
Local: 250.391.2600, loc. 4154  
E-mail: [OLL@royalroads.ca](mailto:OLL@royalroads.ca)

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FIRE & SAFETY  
Division

# Indexes

## Section 4



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# Index

## Alphabetical Listing

Aircraft Emergency Response Awareness	35
Atmospheric Monitoring	43
Basic Fire Fighting Certificate	18
Basic Fire Science	59
Basic Fire Suppression and Safety	42
Basic Orientation for New Departments	62
BC Building Code I	53
BC Fire Code I	53
BC Fire Fighter Certification Program	19
Building Construction	47
Career Fire Fighter Pre-employment Certificate Program	22
Centre for Conflict Resolution	62
Centre for Leadership and Community Learning	63
Confined Space Rescue – Awareness	56
Confined Space Rescue – Operations	56
Confined Space Rescue – Refresher	57
Confined Space Rescue – Technician	57
Critical Incident Stress Management Certificate	63
Emergency Response Involving Downed Aircraft	35
Emergency Scene Management I	28 & 37
Emergency Scene Management II	29 & 37
Emergency Scene Management III	31 & 38
Emergency Vehicle Driver Training (EVD)	36
Emergency Vehicle Operations (EVO)	36
Employability Skills	60
Evaluator Certification Workshop	20
Fall Protection	57
Fire Inspector I	50
Fire Inspector II	51
Fire Investigator I – Fire Cause and Origin	43
Fire & Life Safety Educator I	53
Fire Officer I	27
Fire Officer II	28
Fire Officer III	30
Fire Officer IV	32
Fire Operations in the Wildland Urban Interface (WUI)	42
Fire Safety and Extinguisher Training	47
Fire Safety at Work	61
Fire Service Instructor I	28 & 54
Fire Service Instructor II	29 & 55
Fire Service Leadership Diploma Program	25
Fire and Structural Integrity	39
General Physics	61
Hazardous Materials Emergency Response – Awareness	44
Hazardous Materials Emergency Response for Incident Commanders – Chemical, Biological, and Nuclear Terrorism	45
Hazardous Materials Emergency Response – Operations	44
Hazardous Materials Emergency Response – Refresher	46
Hazardous Materials Emergency Response – Spill Control	43
Hazardous Materials Emergency Response – Technician	45
H <sub>2</sub> S Safety & Response	47
Incident Safety Officer	39
Industrial Emergency Responder Certificate Program	24
Industrial Fire Fighter – Introduction	48
Industrial Fire Fighter – Level I	48

Industrial Fire Fighter – Level II	48
Industrial Fire Fighter – Level III	49
Industrial Fire Fighting – Brigade Team Leader	49
Industrial/High Angle Rope Rescue	59
Introduction to Situational Leadership®	61
Live Fire – Level I	39
Live Fire – Level II	40
Live Fire – Level III	40
Live Fire – Special	40
Masters Program in Justice and Public Safety Leadership	63
NFPA 1001 Challenge	21
Plan Examiner I	52
Pumps and Pumping	37
Rail Tank Car Specialist	46
Rapid Intervention Team (RIT)	40
Refinery Fire Fighter – Level I	49
Refinery Fire Fighter – Level II	50
Shipboard Fire Fighting for the Land Based Fire Fighter	41
Situational Leadership®	62
Strategies and Tactics	41
Technical Low to Steep Angle Rope Rescue – Awareness and Operations	58
Technical High Angle Rope Rescue – Operations	58
Technical High Angle Rope Rescue – Technician	58
Technical Math	62
Tower Crane Refresher	59
Vehicle Rescue – Level I	41
Vehicle Rescue – Level II	42

## Maple Ridge Campus

Atmospheric Monitoring	43
Basic Fire Suppression and Safety	42
Basic Orientation for New Departments	60
Building Construction	47
Career Fire Fighter Pre-employment Certificate Program	22
Confined Space Rescue – Awareness	56
Confined Space Rescue – Operations	56
Confined Space Rescue – Refresher	57
Confined Space Rescue – Technician	57
Emergency Response Involving Downed Aircraft	35
Emergency Vehicle Driver Training (EVD)	36
Emergency Vehicle Operations (EVO)	36
Employability Skills	60
Fall Protection	57
Fire Operations in the Wildland Urban Interface (WUI)	42
Fire Safety and Extinguisher Training	47
Fire and Structural Integrity	39
Hazardous Materials Emergency Response – Awareness	44
Hazardous Materials Emergency Response for Incident Commanders – Chemical, Biological, and Nuclear Terrorism	45
Hazardous Materials Emergency Response – Operations	44
Hazardous Materials Emergency Response – Refresher	46
Hazardous Materials Emergency Response – Spill Control	43
Hazardous Materials Emergency Response – Technician	45
H <sub>2</sub> S Safety & Response	47
Incident Safety Officer	39
Industrial Emergency Responder Certificate Program	24
Industrial Fire Fighter - Awareness	48
Industrial Fire Fighter – Level I	48
Industrial Fire Fighter – Level II	48
Industrial Fire Fighter – Level III	49

Industrial Fire Fighting - Brigade Team Leader	.49
Industrial/High Angle Rope Rescue	.59
Live Fire – Level I	.39
Live Fire – Level II	.40
Live Fire – Level III	.40
Live Fire – Special	.40
NFPA 1001 Challenge	.21
Pumps and Pumping	.37
Rail Tank Car Specialist	.46
Rapid Intervention Team (RIT)	.40
Refinery Fire Fighter – Level I	.49
Refinery Fire Fighter – Level II	.50
Shipboard Fire Fighting for the Land Based Fire Fighter	.41
Strategies and Tactics	.41
Technical Low to Steep Angle Rope Rescue – Awareness and Operations	.58
Technical High Angle Rope Rescue – Operations	.58
Technical High Angle Rope Rescue – Technician	.58
Tower Crane Refresher	.59
Vehicle Rescue – Level I	.41
Vehicle Rescue – Level II	.48

**New Westminster Campus**

Basic Fire Fighting Certificate	.18
Basic Fire Science	.59
BC Building Code I	.53
BC Fire Code I	.53
BC Fire Fighter Certification Program	.19
Centre for Conflict Resolution	.62
Centre for Leadership and Community Learning	.62
Critical Incident Stress Management Certificate	.63
Emergency Scene Management I	.28 & 37
Emergency Scene Management II	.29 & 37
Emergency Scene Management III	.31 & 38
Evaluator Certification Workshop	.20
Fire Inspector I	.50
Fire Inspector II	.51
Fire Investigator I – Fire Cause and Origin	.43
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Fire Service Leadership Diploma Program	.25
General Physics	.61
Introduction to Situational Leadership®	.61
Masters Program in Justice and Public Safety Leadership	.63
Plan Examiner I	.52
Situational Leadership®	.62
Technical Math	.62

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# Fire & Safety Division Training Materials Order Form

FIRE & SAFETY  
Division

Justice Institute of BC  
Fire & Safety Division  
715 McBride Boulevard  
New Westminster, BC V3L 5T4  
604-528-5657 Fax: 604-528-5660  
Email: fireacademy@jibc.bc.ca

Date of Request: \_\_\_\_\_

Request Taken By: \_\_\_\_\_

Program: \_\_\_\_\_

Shipping Address: \_\_\_\_\_ Billing Address: \_\_\_\_\_

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Attention: \_\_\_\_\_ Attention: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

ITEM TITLE/DESCRIPTION	QUANTITY	ITEM COST	TOTAL
Departments who are members of the BC Training Officers' Association are eligible for a 10% discount on Manuals and curriculum packages. Please allow three to four weeks delivery. Courier orders are at the expense of the department. Orders are shipped by regular mail and the cost for shipment is included in the price. Signature (If Required) _____	Sub Total:		
	Training Officers' Discount:		
	Sub Total:		
	GST:		
	Total Payable:		

METHOD OF PAYMENT			
Cheque: <input type="checkbox"/>	Cheque#:	Amount:	
Credit Card: <input type="checkbox"/>	Card Type:	Expiry:	
	Card Holders Name:	Amount:	
	Card Number:		
Cash: <input type="checkbox"/>	Received By:	Amount:	
Other: <input type="checkbox"/>		Amount:	



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## Fire & Safety Division

### **New Westminster Campus**

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Toll free: 888-844-0445  
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email: [fstc@jibc.bc.ca](mailto:fstc@jibc.bc.ca)

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