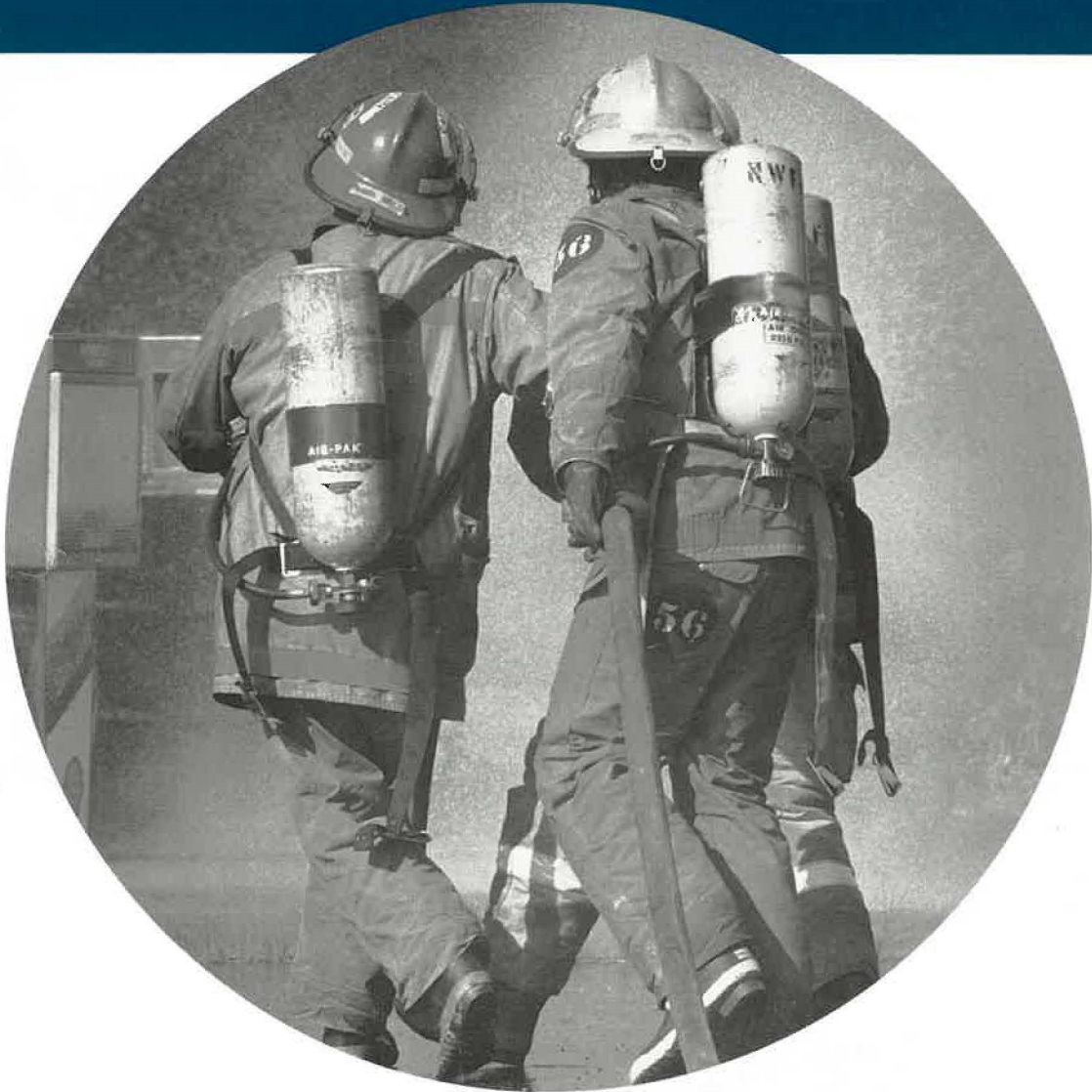


JL  
JUSTICE  
INSTITUTE  
OF B.C.



**FIRE & SAFETY**  
• D I V I S I O N •  
*Excellence in Training*

**COURSE CATALOGUE 1998/1999**



# **COURSE CATALOGUE**

## **1998/1999**



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## Message from the Director

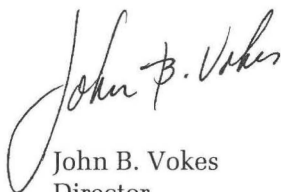
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The Fire and Safety Division of the Justice Institute of BC is pleased to present its most recent catalogue of courses and programs. Courses are offered at our Maple Ridge Campus and New Westminster Campus as well as other regional burn centres, client sites and provincial colleges. Our courses and programs are presented in a number of formats such as classroom, workshop, practical hands-on and distance learning.

Many of the courses are continuations of earlier offerings and need little explanation. There are a number of new entries which include Industrial High Angle Rope Rescue, Confined Space Entry and Rescue, Emergency Vehicle Driver Training and Emergency Vehicle Operation, as well as Shipboard Fire Fighting for Land Based Fire Fighters, and Fire Officer I - Classroom format, to name a few.

Every effort has been made to accommodate the needs of a wide range of clients which include fire departments, industry, marine, refinery and general public within our course offerings. We trust that these will be of value and assist you in meeting your training goals.

On behalf of the Fire and Safety Division I would take this opportunity to thank all of you for your continued support as we strive to meet the needs being presented in the field of fire and safety training.



John B. Vokes  
Director  
Fire & Safety Division





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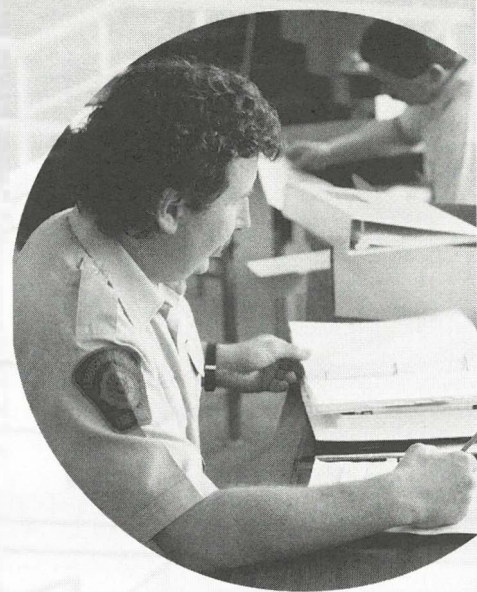
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# SECTION 1



## General Information





# Justice Institute of BC

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The Justice Institute of BC is a post secondary institution dedicated to improving the quality of justice and public safety by developing and delivering training programs and offering educational services to professionals and the public. The Justice Institute Fire & Safety Division develops and delivers training in fire and safety.

The Justice Institute main campus is located in New Westminster at 715 McBride Boulevard. This modern facility is designed to accommodate the specialised needs of the JI clientele. The campus covers 170,000 square feet and includes an office block, classroom/simulation block, library, lecture theatre, cafeteria, gymnasium, indoor firearms range and media centre. Other features include the integration of an exterior courtyard area with an interior atrium.

The Fire & Safety Division main office is on the third floor of the office block.

## JI Telephone Directory

General Inquiries .....	525-5422
Registration .....	528-5590
Finance & Administration .....	528-5500
Corrections Academy .....	528-5531
Courts Academy .....	528-5567
Career & Community Studies Division & Educational Services .....	528-5608
<b>Fire &amp; Safety Division (Fire Academy) .....</b>	<b>528-5657</b>
<b>Fire &amp; Safety Division (Fire &amp; Safety Training Centre) .....</b>	<b>462-1000</b>
Library .....	528-5599
Media Centre .....	528-5600
Paramedic Academy .....	528-5707
Police Academy .....	528-5753
Provincial Emergency Program Academy .....	528-5790

## JI Mailing Address

Justice Institute of BC  
715 McBride Boulevard  
New Westminster, BC  
V3L 5T4

# Fire & Safety Division

The JI Fire & Safety Division delivers courses and programs from two locations, the New Westminster Campus (*Fire Academy*) and the Maple Ridge Campus (*Fire & Safety Training Centre*).

The New Westminster Campus (*Fire Academy*) focuses on the training of fire department personnel through course offerings which include, but are not limited to, pre-employment fire fighter recruit training, a fire fighter program, fire officer programs, industrial high angle rope rescue training as well as executive development and customised training.

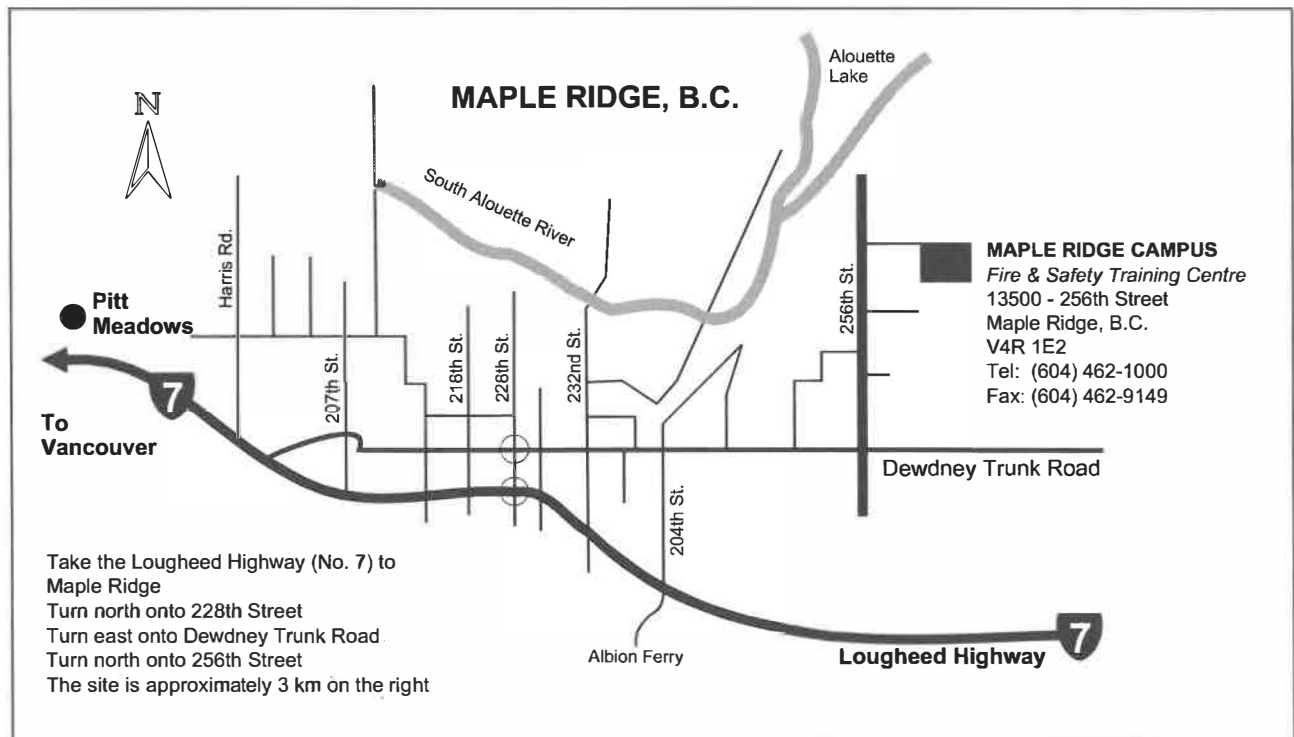
The Maple Ridge Campus (*Fire & Safety Training Centre*) delivers a wide range of training programs, from basic fire fighting to hazardous materials training and specialised programs developed to meet client needs. The programs focus on hands-on training, combined with classroom theory. Small class sizes ensure everyone participates in the learning.

The 12 acre training site is located 58 kilometres east of Vancouver. It includes training areas and props designed for a wide range of scenarios, from extinguisher training to confined space rescue.

## Fire & Safety Division Addresses and Contact Information

Fire & Safety Division  
New Westminster Campus  
*Fire Academy*  
715 McBride Boulevard  
New Westminster, BC  
V3L 5T4  
Tel: (604)528-5657  
Fax: (604)528-5660  
email: [fireacademy@jibc.bc.ca](mailto:fireacademy@jibc.bc.ca)

Fire & Safety Division  
Maple Ridge Campus  
*Fire & Safety Training Centre*  
13500 - 256<sup>th</sup> Street  
Maple Ridge, BC  
V4R 1E2  
Tel: (604)462-1000  
Fax: (604)462-9149  
email: [fstc@jibc.bc.ca](mailto:fstc@jibc.bc.ca)



## Course Site Flexibility

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

## Services Offered

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### Custom Courses

The Fire & Safety Division develops customised courses for clients. We can adapt existing courses or design courses to meet client needs. All custom courses are designed in consultation with the client and with reference to relevant standards. Courses may be presented at the client's facility.

For further information on custom courses specific to your needs, contact the Fire & Safety Division, Maple Ridge Campus at (604) 462-1000 or New Westminster Campus at (604) 528-5657.

### Library

Library and information services are provided to all members of fire departments. The service is 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
- Management
- Fire Behaviour
- Smoke and Ventilation
- Fire Investigation
- Apparatus and Equipment
- Disasters and Hazardous Materials
- Fire Prevention and Suppression
- Rescue and First Aid
- Marine Safety and Fire Fighting

Video catalogues are available for a \$5.00 fee. Please make cheques payable to the Justice Institute when ordering your catalogue.

The monthly newsletter *Library News* listing new books and audio visual materials is sent to fire departments.

The Library is open from 8:00 am to 5:00 pm on weekdays.

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).

### Career Counselling

Career counselling is available for anyone interested in pursuing a career in the Fire Service. The hourly sessions are by appointment and a fee will be charged. Call 528-5657 for details and to make an appointment.



## Training Materials for Purchase

The Fire & Safety Division offers **IFSTA** (International Fire Service Training Association) and Edukits training materials that can be used to train volunteer fire fighters, paid fire fighters and industrial personnel.

The Fire & Safety Division is one of 70 distributors in North America for **IFSTA** materials. The materials are developed and distributed by Fire Protection Publications which is located at the Oklahoma State University in Stillwater, Oklahoma.

Edukits are self-contained training packages developed by the Justice Institute. There are 22 subjects available. Each Edukits consists of:

- Instruction Manual
- Accompanying Video
- Guidelines for an Instructor
- Quiz Sheet (in most packages)
- Skills Checklist
- Masters for Overheads

For more information, to receive a price list or catalogue, or to place an order please call (604) 528-5657.

## Distance Education

---

Some 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 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. Students are encouraged to work at an accelerated pace in accord with the schedules arranged with their own department support personnel including fire department Liaison Officers (usually Chief Training Officer or designate) and Division tutors who make up an integral part of the program.

Several courses are available for certification. 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

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

### **Clothing**

For some courses you are advised to bring coveralls/work clothes and a change of clothes (natural fibres, no synthetics). Full protective clothing (where required) will be assigned to the student for the duration of the course. Please check when registering.

**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 it does not effect the seal of the SCBA face piece. This is a requirement of the Canadian Standards Association, Workers' Compensation Board 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. Some courses include a lunch, please check when registering.

**Parking**

Parking is available at no charge. Follow the signs. Please park outside the gates.

**Accommodation**

Many motels in the area offer discounts to students. Mention your student status when booking rooms. For information on accommodation in the area call the Maple Ridge Chamber of Commerce at (604) 463-3366.

## How to Use This Catalogue

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The Fire & Safety Division offers courses and programs to a wide variety of clients. For ease of use, we have divided this catalogue into three main sections: General Information, Courses, and Programs. The last two offer alphabetical listings of the training we offer in both campuses and elsewhere.

We have further categorized the Courses and Programs 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**

Please see page 18 for Summary of Courses and page 30 for Summary of Programs.

## Course Schedule and Fee Information

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Course schedule and fee information are not part of the catalogue. For current schedule and fee information contact the New Westminster Campus (604) 528-5657 or Maple Ridge Campus (604) 462-1000.

## Registration

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It's easy to register!

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

### Register early

Many courses fill quickly, so register early to avoid disappointment. Registrations are accepted on a first-come, first-served basis. ***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 for the year. Income tax receipts will be issued in February for previous year courses.

### Refunds

Registration fees are refundable provided we receive notification of cancellation one week (7 days) prior to the course date. Refunds are subject to an administrative charge of \$25.00.

### Transfers

We must receive notification regarding transfer from one course to another *one week (7 days) prior* to the date of the course you are transferring from. Transfers are subject to an administrative charge of \$25.00.

### Substitutions

Course substitutions are welcome as long as the substituting participant has completed the course prerequisites. The substituting participant must obtain a substitution form from the Registration Office.

### NSF cheques

A fee of \$15 applies to all cheques returned "NSF".

**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 must be 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**

Help the Registration Office help you. The Justice Institute has received funds from the Ministry of Education, Skills and Training to provide support to students with disabilities attending courses at the Justice Institute. For further information on the support available, please contact Shelley Rivkin in Career and Community Studies at (604) 528-5628 or TDD/TTY 528-5655.

**First Nations Students**

Our First Nations Advisor is available to provide information and office support to First Nations students. You can get in touch with Renee Nyberg-Smith by contacting her at (604) 528-5621. To obtain a brochure on First Nations services, please call (604) 528-5621.

**Student Loans**

Student loans are available for the Fire Fighter Training Program only. Application forms are available at the Registration Office.

## Fee Structure for Fire Service Clients

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Students enrolled in Company Officer 10, Command Officer 7, Training Officer 2 and Fire Prevention Inspection 12 and all other JI programs are responsible for their travel, meal and accommodation\* costs.

The fees for the following services:

• Course Transcript Fee.....	\$ 4.00
• Certificate Fee (Program Completion) .....	30.00
• Replacement of Certificate.....	50.00
• Name Change on Certificate .....	50.00
• Transfer of Credit Review.....	50.00
• Photocopy of Certificate .....	4.00
• Officer Block Registration Fee .....	125.00
• Fire Fighter Module Registration Fee .....	5.00
• Fire Fighter Single Subject Registration Fee .....	5.00

*All fees are subject to change.*

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

## FIRE & SAFETY DIVISION REGISTRATION FORM

Have you ever taken a course at the Justice Institute of B.C.? ☐ YES ☐ NO

If **YES**, Student Identity Number (if known):

The following is my: ☐ Work address ☐ Home address

LAST NAME	FIRST NAME	MIDDLE NAME
POSITION		ORGANIZATION
STREET NAME AND ADDRESS		
CITY	PROVINCE	COUNTRY
POSTAL CODE	EVENING OR HOME PHONE ( )	DAY PHONE ( )

**OPTIONAL INFORMATION**

DISABILITIES/SPECIAL REQUIREMENTS (PLEASE DESCRIBE): \_\_\_\_\_

MEMBER OF A FIRST NATION? ☐ YES ☐ NO

**Many of our courses have prerequisites.**  
**Please read the course descriptions in the calendar carefully before undertaking to register in a course.**

COURSE NAME	COURSE NO.	START DATE	COURSE FEE
<b>Note:</b> Courses are GST-exempt.			<b>TOTAL FEE</b>

**ENCLOSED IS MY COURSE FEE PAYMENT BY:**

☐ Cheque or money order

☐ MasterCard           Exp.     Name of Cardholder \_\_\_\_\_

☐ VISA           Exp.     \_\_\_\_\_

**Justice Institute of B.C., 715 McBride Boulevard, New Westminster, B.C. V3L 5T4**  
**For registration only: phone 604/528-5590; fax 604/528-5653**

**PLEASE USE ONE REGISTRATION FORM PER STUDENT.**  
**PHOTOCOPY THIS FORM FOR USE BY EACH ADDITIONAL STUDENT**

## SECTION

# 2



## Courses

## Summary of Courses

Course Name	 General Public	 Fire Service	 Industry/ Marine
Auto Extrication - Level I	✓	✓	✓
Auto Extrication - Level II	✓	✓	✓
Basic Fire Science	✓		
Basic Orientation for New Departments		✓	
Company Officer Orientation to Marine Response		✓	✓
Confined Space Entry and Rescue	✓	✓	✓
Driving With Finesse	✓	✓	✓
Emergency Vehicle Driver Training		✓	✓
Emergency Vehicle Operation		✓	✓
Enhanced Hazardous Materials Emergency Response - Operations		✓	✓
Executive Development		✓	
Fire Safety & Extinguisher Training	✓		✓
Fire Safety at Work	✓		✓
General Physics	✓	✓	
Hazardous Materials Emergency Response Awareness	✓	✓	✓
Hazardous Materials Emergency Response Operations	✓	✓	✓
Hazardous Materials Emergency Response Technician	✓	✓	✓
Hazardous Materials Spill Response - Level I	✓	✓	✓
Industrial Fire Fighting - Level I	✓		✓
Industrial Fire Fighting - Level II	✓		✓
Introduction to the Fire Service - Part I	✓		
Introduction to the Fire Service - Part II	✓		
Introduction to Incident Command		✓	✓
Live Fire - Level I		✓	✓
Live Fire - Level II		✓	✓
Live Fire - Level III		✓	✓
Live Fire Special		✓	✓
Pumper Hydraulic Basic	✓	✓	✓
Pumps & Pumping Basic	✓	✓	✓
Refinery Fire Fighter - Level I & II			✓
Shipboard Fire Fighting for the Land Based Fire Fighter		✓	
Situational Leadership		✓	✓
Strategies & Tactics		✓	✓
Technical Math	✓	✓	

## Auto Extrication - Level I



### FS100

This first level acquaints the student with the tools and techniques needed to safely extricate victims from wrecked vehicles.

*For more information contact (604) 462-1000.*

#### *Who should attend:*

Fire service, public or any organisation involved in rescue from automobiles

#### *Prerequisites:*

None

#### *Presentation:*

1 day - Classroom lecture and practical exercises

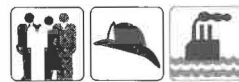
#### *Location:*

Maple Ridge Campus or client site

#### *Certification:*

Letter of Attendance

## Auto Extrication - Level II



### FS101

This course builds on the skills and techniques of Level I and introduces the student to scene management and the Incident Command System (ICS). Scenario training gives the realistic experience needed to build competency.

*For more information contact (604) 462-1000.*

#### *Who should attend:*

Fire service, public or any organisation involved in rescue from automobiles

#### *Prerequisites:*

Auto Extrication - Level I

#### *Presentation:*

2 days - Classroom lectures and practical exercises

#### *Location:*

Maple Ridge Campus or client site

#### *Certification:*

Certificate of Achievement

## Basic Fire Science



### DE00 (Distance Ed) NC02 (Classroom)

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.  
*For more information contact (604) 528-5657.*

#### *Who should attend:*

Fire service personnel, non-fire service personnel and general public

#### *Prerequisites:*

None

#### *Presentation:*

40 Self Study hours or  
six 2 hour classroom sessions

#### *Location:*

New Westminster Campus

#### *Certification:*

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 organisation. Local fire department equipment and resources are used.

The course is offered to newly formed volunteer fire departments who have been recognised by the Office of the Fire Commissioner and have been issued a fire department code.

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 ½" attack lines with at least two constant flow nozzles;
- 1 ½" attack lines with at least two constant flow nozzles;
- adequate self-contained breathing apparatus to satisfy Workers' Compensation Board 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.

For more information contact (604) 528-5657.

*Who should attend:*

All fire department members

*Prerequisites:*

None

*Presentation:*

2 ½ days - Classroom sessions and practical exercises

*Location:*

Local fire department

*Certification:*

None

## Company Officer Orientation to Marine Response



The course is based upon NFPA 1405 (Marine Fire Fighting for the Land Based Fire Fighter) and is designed for departments with lake or river frontage where smaller vessels are encountered. The content covers awareness and hazards of the marine environment, strategy and tactics, access and extinguishment of vessel fires. The course is presented by arrangement. Port city departments are advised to take Shipboard Fire Fighting for Land Based Fire Fighters.

For more information contact (604) 462-1000.

*Who should attend:*

Fire Departments in smaller communities whose jurisdiction includes waterfront, marinas and vessels

*Prerequisites:*

Officer or prospective officer

*Presentation:*

2 days - Classroom lecture, buzz groups, field visits and practical exercise on waterfront locations

*Location:*

Maple Ridge Campus or host Department

*Certification:*

Certificate of Attendance

## Confined Space Entry & Rescue



### FS800

The course is presented jointly by the Fire & Safety Division, Maple Ridge Campus and Canadian Airlines (CA). Through classroom

lectures and field exercises, material safety data sheets, permits and other documentation are examined and used. Students are expected to participate fully in all exercises; using monitoring equipment, self contained and supplied air breathing apparatus, harnesses and hoisting systems.

The course incorporates and can be presented in the following modules.

- Confined Space Awareness
- Confined Space Attendant
- Permit Authoriser and the JI
- Confined Space Practical Rescue

For more information contact (604) 462-1000.

*Who should attend:*

Industrial and marine workers, emergency response personnel and others whose work involves entry into, work in, or effecting rescue/recovery from confined spaces

*Prerequisites:*

None

*Presentation:*

4 days - Classroom and field exercises

*Location:*

Maple Ridge Campus or on location

*Certification:*

Certificate of Achievement

## Driving with Finesse



### PTEC300

Driving with Finesse is a one-day hands-on driver enhanced program designed for all types of drivers. This course challenges the driver to further develop vehicle handling, perceptual and traffic management skills. This course will challenge each driver to implement new driving concepts and philosophy in their day-to-day driving. Whether it is emergency vehicle driving, the daily commute to the office or a short trip to the supermarket, Driving with Finesse will make a difference to your driving style, attitude and behaviour.

The course is limited to five participants. The students are driving on the road with an instructor and the g-analyst computer during the entire program.

Company vehicles can be used for this course as long as they can accommodate six people.

For more information contact (604) 528-5657.

*Who should attend:*

Professional drivers, fire service, police service, all emergency vehicle operators, general public and industry

*Prerequisites:*

Valid driver's license

*Presentation:*

1 day - Practical hands-on driving experience using a mini-van.

*Location:*

Designated routes throughout the province

*Certification:*

Certificate of Achievement

## Emergency Vehicle Driver Training



Emergency Vehicle Driver Training is a certified course offered through the Fire & Safety Division, Maple Ridge Campus. This eight-hour 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. Emergency Vehicle Driver Training is designed so that students are introduced 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 118 of the Motor Vehicle Act.

*For more information contact (604) 462-1000.*

*Who should attend:*

Drivers of fire suppression apparatus

*Prerequisites:*

Class 5 drivers license with air brake endorsement

*Presentation:*

1 day - Classroom and hands on practical

*Location:*

Boundary Bay Airport

*Certification:*

Certificate of Achievement

## Emergency Vehicle Operation



This course is designed for drivers and operators of fire trucks (pumpers). It is based on NFPA Level 2 and prepares the student to drive, operate and perform preventative maintenance on fire fighting apparatus. The course is designed to be delivered in house by the department training

officer. Upon request it can be delivered at the Maple Ridge Campus.

*For more information contact (604) 462-1000.*

*Who should attend:*

Operators of fire suppression pumping apparatus

*Prerequisites:*

Class 5 driver license; air endorsement; basic understanding of fire suppression hydraulics

*Presentation:*

5 days - Classroom and hands on practical

*Location:*

Fire department or Maple Ridge Campus

*Certification:*

Certificate of Achievement

## Enhanced Hazardous Materials Emergency Response - Operations Level



This course exceeds the requirements of NFPA 472 (Operations) It is designed to be product and/or site specific. The students practise their response capabilities on materials relevant to their employment. It is recommended for employees of process industries, members of fire department and anyone involved in the transportation and handling of hazardous material. The course is in conformance with NFPA 472.

*For more information contact (604) 462-1000.*

*Who should attend:*

Individuals responding to incidents of, or transportation of, or handling of, hazardous materials

*Prerequisites:*

Awareness Level

*Presentation:*

5 days - Classroom lecture and field exercises

*Location:*

Maple Ridge Campus or client site

*Certification:*

Certificate of Achievement

## Executive Development



The course is designed to cover both operational and administrative aspects of Chief Officer duties. The course begins with a ½ day in-basket exercise designed to surface a number of key issues. The remainder of the two weeks then looks at each

issue in depth. An open forum with two municipal administrators is scheduled at the end of the program. The intent of the course content is that in this way all the learning can be related to real-life needs.

The topics are balanced between line and staff functions that will be encountered at a senior officer level and may include: Operations Management such as: policy formation, passport accountability, and ethics/risk management; Personnel Management such as: performance planning & review, employment equity and effective union/management relations; and Executive Administration such as: conducting effective meetings, successful presentations and strategic planning.

*For more information contact (604) 528-5657.*

*Who should attend:*

Fire Service Personnel

*Prerequisites:*

Fire officers or those preparing for senior management positions

*Presentation:*

10 days - Lectures and workshops

*Location:*

New Westminster Campus

*Certification:*

Certificate of Achievement

## Fire Safety & Extinguisher Training



### FS001

This course will explain fire behaviour, the fire triangle, 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 invaluable information for employees of service stations, school districts, hospitals, hospitality and transportation industries, long term care facilities, etc.

*For more information contact (604) 462-1000.*

*Who should attend:*

Individuals interested in acquiring the skills in operating fire extinguishers on small fires, at home or in the work place

*Prerequisites:*

None

*Presentation:*

4 hours - Classroom lecture and 'live fire' practical

*Location:*

Maple Ridge Campus or client site

*Certification:*

Certificate of Attendance



## Fire Safety at Work

### DE02 (Distance Ed) NC06 (Classroom)

This course has been designed in the distance education format and developed in co-operation with the Open College component of the Open Learning Agency. Course materials explore 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 organisation. 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 the Province.

This course is not designed for professional or volunteer fire service personnel.

*For more information contact (604) 528-5657.*

*Who should attend:*

Anyone with job responsibilities in fire safety and/or with an interest in fire prevention and response

*Prerequisites:*

None

*Presentation:*

120 Self Study hours or six 2 hour classroom sessions

*Certification:*

Certificate of Achievement



## General Physics

### DE06

General Physics familiarises 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.

*For more information contact (604) 528-5657.*

**Who should attend:**

Fire service personnel or Basic Fire Science graduates

**Prerequisites:**

Suggested - Basic Fire Science or background in science

**Presentation:**

40 Self Study hours or six 2 hour classroom sessions

**Location:**

New Westminster Campus

**Certification:**

Certificate of Achievement

## **Hazardous Materials Emergency Response - Awareness**



### **FS200**

The course covers practical, defensive response to release of hazardous materials. Personnel safety, hazard assessment and notification are practised in response to simulated incidents. It is recommended for employees of process industries, members of fire departments and anyone involved in the transportation and handling of hazardous material. This course is accredited by IFSAC with compliance to NFPA 472.

*For more information contact (604) 462-1000.*

**Who should attend:**

Individuals responding to incidents of, or transportation of, or handling of, hazardous materials

**Prerequisites:**

None

**Presentation:**

2 days - Classroom lecture and field exercises

**Location**

Maple Ridge Campus or client site

**Certification:**

Certificate of Achievement

## **Hazardous Materials Emergency Response - Operations**



### **FS210)**

This course builds upon the Awareness Level. Students respond to simulated incidents while wearing protective equipment including SCBA (Self Contained Breathing Apparatus). Emergency response plans are implemented where relevant and several containment methods are practised in field exercises. It is recommended for employees of process industries, members of fire departments and anyone involved in the transportation and handling of hazardous material. This course is accredited by IFSAC with compliance to NFPA 472.

*For more information contact (604) 462-1000.*

**Who should attend:**

Individuals responding to incidents of, or transportation of, or handling of, hazardous materials

**Prerequisites:**

Awareness Level

**Presentation:**

5 days - Classroom lecture and field exercises.

**Location:**

Maple Ridge Campus or client site

**Certification:**

Certificate of Achievement

## **Hazardous Materials Emergency Response - Technician**



### **FS220**

The technician level not only builds upon the proceeding levels of Awareness and Operation but covers management of the scene and full mitigation of the incident. Level A protection is worn, communications and use of the Incident Command System (ICS) are practised in realistic simulated scenarios. Pre-reading and homework assignments are an integral part of the course. This course is in conformance with NFPA 472.

*For more information contact (604) 462-1000*

**Who should attend:**

Individuals responding to incidents of, or transportation of, or handling of, hazardous materials

**Prerequisites:**

Awareness & Operations Level

**Presentation:**

4 days - Classroom lecture and field exercises

**Location:**

Maple Ridge Campus

**Certification:**

Certificate of Achievement

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## **Hazardous Materials Spill Response - Level I**



A one day course that focuses on emergency response procedures to hazardous materials spills. The course will give the student the basic skills necessary to respond safely, identify the hazard and perform various spill control techniques. This course can be customised to meet the client's requirements.

*For more information contact (604) 462-1000.*

**Who should attend:**

Those who respond to spills not requiring respiratory protection

**Prerequisites:**

Basic understanding of TDG placard/label and WHMIS hazard symbols

**Presentation:**

2 days (or customised)-  
Classroom lecture and field exercises

**Location:**

Maple Ridge Campus or client site

**Certification:**

Certificate of Achievement

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## **Industrial Fire Fighting - Level I**



### **FS430**

At the conclusion of the course the participant will have the knowledge, skills and ability to be a valued member of an industrial fire brigade. Content includes: Industrial Fire Theory, Fire Safety and Prevention, Protective Gear and Rescue Techniques, Fire Extinguisher Equipment and Agents, On-Site Control Measures in Simulated Situation (interior and exterior fire fighting) and On-Site Industrial Fire Fighting Plan. For those not affiliated with a company that requires you to respond to incidents as part of your job Introduction to the Fire Service is recommended as a prerequisite.

*For more information contact (604) 462-1000.*

**Who should attend:**

Those whose duties include response to incidents involving fire, especially employees of pulp mills, refineries, saw mills, gas plants or any other industry where fire suppression crews are required.

**Prerequisites:**

None

**Presentation:**

5 days - Classroom lecture and field exercises

**Location:**

Maple Ridge Campus or regional burn facility

**Certification:**

Certificate of Achievement

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## **Industrial Fire Fighting - Level II**



This course has been designed with a focus on industrial brigades of pulp mills, refineries, sawmills, gas plants, mines or any other industry where fire suppression crews are required. At the conclusion of the course participants will have the knowledge, skills and ability to lead a Industrial Fire Brigade. Content includes: passport accountability, live fire scenario base training, ICS (Incident Command System) and installed fire protection systems.

*For more information contact (604) 462-1000.*

**Who should attend:**

Those whose duties include the leadership or command of Industrial Fire Brigade

**Prerequisites:**

Industrial Fire Fighting - Level I

**Presentation:**

4 days - Classroom lecture and live fire scenario training

**Location:**

Maple Ridge Campus or regional burn facility

**Certification:**

Certificate of Achievement

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## **Introduction to the Fire Service - Part I**



### **FS002**

This course allows students to explore the possibility of a career in the fire service. Over a

weekend, fire service professionals will present topics relevant to the fire service. Topics may include: Career Planning, Physical Testing for the Fire Service, Safety and Equipment, Fire Prevention Inspection, Dangerous Goods, Fire Department Perspective, Critical Incident Stress and Fire Service Organisation. Enrolment is limited.

*For more information contact (604) 528-5657.*

*Who should attend:*

Individuals who are interested in exploring a career in the Fire Service

*Prerequisites:*

None

*Presentation:*

1 evening plus 2 days -

Classroom & practical sessions

*Location:*

New Westminster Campus or provincial college

*Certification:*

Letter of Attendance

## **Introduction to the Fire Service - Part II**



### **FS003**

The course gives participants an opportunity to experience part of a fire fighters life. Supervised use of extinguishers and hoses on live fire, while wearing full protective equipment, give a memorable experience.

*For more information contact (604) 462-1000.*

*Who should attend:*

Individuals who wish to explore the possibilities of a career in the fire service

*Prerequisites:*

Introduction to the Fire Service - Part I (consideration will be given to volunteer fire fighters, contact the program co-ordinator)

*Presentation:*

1 day - Classroom lecture and practical demonstrations

*Location:*

Maple Ridge Campus or client site

*Certification:*

Letter of Attendance

## **Introduction to Incident Command**



The course is designed to introduce the elements of an Incident Command System and an accountability system to an individual fire department or a group of fire departments involved in mutual aid. The workshop format will assist participants in developing systems that will address the specific needs of the department or group of departments. This is done through lecture, discussion, and practical application. This course can be presented over 2 or 2 ½ days depending on the department's needs.

*For more information contact (604) 528-5657.*

*Who should attend:*

Fire department officers, acting officers, and senior fire fighters who would be expected to take charge of an emergency incident

*Prerequisites:*

None

*Presentation:*

2 ½ days - Classroom and practical application using a model town

*Location:*

Local fire department facilities

*Certification:*

None

## **Live Fire - Level I**



### **FS440 (Maple Ridge) FS440N (Nanaimo)**

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. Specifically, a fire fighter completing this course will develop practical skills and techniques for interior structural fires.

*For more information contact (604) 462-1000.*

*Who should attend:*

Fire Department or Industrial Brigade members

*Prerequisites:*

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



*Presentation:*

2 days - Classroom and live fire exercises

*Location:*

Maple Ridge Campus or Nanaimo Training Centre or regional burn facility

*Certification:*

Certificate of Achievement



## Live Fire - Level II

### FS44I (Maple Ridge) FS44IN (Nanaimo)

A fire fighter completing Level II 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. Specifically, a fire fighter completing this program will develop the following practical skills and techniques to extinguish and control the following live fires: an exterior combustible liquids fire of at least 100 square feet (9m<sup>2</sup>), using a foam fire stream; a fire in an elevated location within a structure (e.g. upper level floor, attic); a hidden fire within a structure (e.g. within walls, crawl spaces); a fire involving energised 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, Level II.

For more information contact (604) 462-1000.

*Who should attend:*

Fire Department or Industrial Brigade members

*Prerequisites:*

Live Fire Level I

*Presentation:*

2 days - Classroom lecture and live fire exercises

*Location:*

Maple Ridge Campus or Nanaimo Training Centre or regional burn facility

*Certification:*

Certificate of Achievement



## Live Fire - Level III

This course is designed to enhance the safety of fire suppression crews at a fire scene. Students will apply the Incident Command System (ICS) using passport accountability to live fire scenarios. The Incident Commander will size up

emergency scenes and formulate strategic goals and tactical objectives.

For more information contact (604) 462-1000.

*Who should attend:*

Fire fighters or officers of a Fire Department or Industrial Brigade

*Prerequisites:*

Live Fire II, senior fire fighters or company officers

*Presentation:*

2 days - Classroom lecture and live fire exercises

*Location:*

Maple Ridge Campus or Nanaimo Training Centre or regional burn facility

*Certification:*

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 Operating Guidelines and suppression techniques used by a Fire Department or Industry.

For more information contact (604) 462-1000.

*Who should attend:*

Fire Department or Industrial Brigade members

*Prerequisites:*

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

*Presentation:*

½ - 2 days - Classroom lecture and live fire exercises

*Location:*

Maple Ridge Campus and Nanaimo Training Centre or regional burn facility

*Certification:*

Certificate of Attendance



## Pumper Hydraulic Basic

This one day course will educate the student on the understanding of hydraulics as it relates to the Fire Suppression and Pumper Apparatus crews.

The course is designed to help the student follow through the IFSTA Fire Streams Seventh Edition, Chapter Four and apply this knowledge to actual fire ground scenarios. Upon completion of this course, the student will understand the principles of friction loss, nozzle and pump pressure, and fire ground hydraulic calculations. The student will also understand the principles of drafting and relay pumping.

*For more information contact (604) 462-1000.*

*Who should attend:*

Anyone who is or has the interest to operate Fire Suppression Apparatus

*Prerequisites:*

None

*Presentation:*

1 day - Classroom

*Location:*

Maple Ridge Campus or client site

*Certification:*

Letter of Attendance

## Pumps and Pumping Basic



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 learns by doing, as pumping scenarios are practised and evaluated.

*For more information contact (604) 462-1000.*

*Who should attend:*

Fire Service or Industrial Brigade members

*Prerequisites:*

Valid drivers license with Air Brake Endorsement

*Presentation:*

4 days - Classroom lecture and practical exercises

*Location:*

Maple Ridge Campus or client site

*Certification:*

Certificate of Achievement

## Refinery Fire Fighter - Level I & II



**Level I:** A review of fire theory and behaviour, classes of fire, extinguisher use and plant emergency procedures is followed by field

exercises with 20 lb. extinguisher. Individual and team exercises are performed. A classroom review of BLEVE hazard is followed by field exercises on propane fires.

**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.

*For more information contact (604) 462-1000.*

*Who should attend:*

Employees of Refineries and Companies involved in bulk hydrocarbon fuel storage or transportation

*Prerequisites:*

**Level I** - Letter of recommendation from manager or supervisor

**Level II** - Letter and Fire Safety & Extinguisher Training

*Presentation:*

1 day - Classroom lecture and field exercises

*Location:*

Maple Ridge Campus

*Certification:*

Certificate of Attendance

## Shipboard Fire Fighting for the Land Based Fire Fighter



This course provides participants with the basic knowledge and skills to act as team members in responding to vessel fires. Participants will be able to demonstrate awareness of the hazards associated with the marine environment and shipboard fire fighting. The course is presented in 3 modules: marine environment organisation and terminology; strategies and tactics (including case studies), and vessel stability; and securing the incident unified response. This course was developed in conformance with NFPA 1405, and in response to the needs of land based fire fighters. The course development committee comprised members of the Fire and Safety Division, Maple Ridge Campus, Vancouver Port Corporation, and Vancouver, District of North Vancouver, City of North Vancouver, Burnaby, Surrey and Port Moody Fire Departments.

*For more information contact (604) 462-1000.*



*Who should attend:*

Fire Department or Industrial Brigade members

*Prerequisites:*

Fire department or industrial brigade members, with recommendations from their Chief or superior officer

*Presentation:*

5 days - Classroom, field trips, practical exercises, and tabletop sessions

*Location:*

Maple Ridge Campus and Vancouver Harbour, some portions may be presented in a Fire Hall by arrangement

*Certification:*

Certificate of Achievement



## Situational Leadership

Situational Leadership teaches people in management and supervisory positions to master four leadership styles - Directing, Coaching, Supporting and Delegating - and when to use each style to get the job done the right way.

Situational Leadership will help develop leaders at all levels of an organisation by teaching them how to diagnose and decide which leadership style is the most effective

*For more information contact (604) 528-5657.*

*Who should attend:*

Fire service personnel responsible for leading and motivating a crew or someone about to move into a supervisory position

*Prerequisites:*

None

*Presentation:*

2 days - Classroom lecture and table top exercises

*Location:*

New Westminster Campus or client site



## Strategies & Tactics

This is an exciting interactive two day training program. Using video and interactive participation, fire fighters in groups, will manage, attack and suppress several structure fires in buildings of various occupancies. The course is

directed towards line fire fighters and officers. It addresses Fire Behaviour, Scene Management, Ventilation Techniques and Methods of Structural Fire Attack. The courses' objective is to incorporate fire control with an effective emergency scene management system.

*For more information contact (604) 462-1000.*

*Who should attend:*

Fire Department or Industrial Brigade members

*Prerequisites:*

Fire Fighter Officers of a Fire Department or Industrial Brigade

*Presentation:*

2 days - Classroom theory and hands on practical

*Location:*

Maple Ridge Campus or client site

*Certification:*

Letter of Attendance



## Technical Math

### DE05

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.

*For more information contact (604) 528-5657.*

*Who should attend:*

Anyone requiring skills needed for fire flow calculations

*Prerequisites:*

Basic mathematical skills

*Presentation:*

40 Self Study hours or six 2 hour classroom sessions

*Location:*

New Westminster Campus or provincial colleges

*Certification:*




Certificate of Achievement

# SECTION 3



**Programs**

## Summary of Programs

Course Name	 General Public	 Fire Service	 Industry/ Marine
BC Fire Fighter		✓	
Distance Education Programs:			
Company Officer		✓	
Command Officer		✓	
Administration Officer		✓	
Training Officer		✓	✓
Fire Prevention Inspector		✓	✓
Diploma Program in the Fire Service		✓	
Fire Fighter Training Program	✓		
Fire Officer Program		✓	
Fire Service Instructor		✓	
Industrial High Angle Rope Rescue Certificate Program		✓	✓

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## BC Fire Fighter Program

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The BC Fire Fighter program is based on the BC Fire Fighter Standard.

The Fire & Safety Division will support the fire service by identifying curriculum and providing a system of examinations, checklists and record-keeping.

To assist fire departments in managing training and evaluations, subjects which meet the standard have been broken into ten (10) modules. The recommended training manual for this program is the International Fire Service Training Association (IFSTA) Essentials, Third Edition. In addition, a cross reference has been published

which identifies the sections of the IFSTA Third Edition as well as other commonly available training resources, i.e., Edukits or provincial or local documents.

The Fire & Safety Division is unable to project a time-frame for completion of the training necessary to achieve the training objectives for Fire Fighter I or Fire Fighter II as this is driven by the amount of time devoted to the training and evaluation which occurs at the fire department level.

*For additional information on this program call (604) 528-5657.*

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## Distance Education Programs

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Distance Education Programs for the Fire Service in the Province of British Columbia cover a series of courses that allow fire fighters and officers 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. Students are encouraged to work at an accelerated pace according to schedules arranged with their own department support personnel, including fire department Liaison Officers (usually the Chief Training Officer or designate) and Fire & Safety Division tutors, who make up an integral part of the program.

### Courses

Five courses are presently available for certification. The courses are based on the qualifications established by the NFPA and amended as necessary to reflect the needs of the BC Fire Service. Successful completion of a full course leads to certification at that level.

- Company Officer
- Command Officer
- Administration Officer
- Training Officer
- Fire Prevention Inspector

### Eligibility Requirements

Courses are available to all Fire Service personnel.

**Company Officer** was initially designed for full-time career fire officers, but has been expanded to allow volunteer candidates to participate in the program. It is intended to prepare candidates for officer positions. It is most appropriate for first class fire fighters and lieutenants.

Applications forms require the signature of the chief and a liaison officer assigned by the department.

Completion of Fire Fighter II is a prerequisite to enter the Officer Program. Experienced volunteer fire fighters with the authorisation of their fire chiefs are eligible to participate and will receive a letter upon successful completion.

**Command Officer** is the next step in the Officer Program. It is best suited to captains and battalion chiefs.

**Administration Officer** is intended for chief officer candidates.

To be admitted to the **Fire Prevention Inspector and Training Officer** course, a candidate must be a member of the fire service and have a responsibility in either training or fire prevention.

Candidates must meet the following criteria:

- member of volunteer, full-time or industrial fire department or a member of the Office of the Fire Commissioner staff or JI Fire & Safety Division;
- must submit a completed application for admission bearing the signature of the department head;
- must have application approved by the Fire & Safety Division Director or designate;
- special requests for admission must be addressed to the Director.

## Course Blocks

The Distance Education Program works on a continuous entry/exit system. Students register in a course and determine which blocks they wish to study. Material will be sent one block at a time. Tutors will receive students' names and phone numbers at this time.

Each course comprises subject blocks, as listed in the following course descriptions. Blocks are subdivided into units composed of individual booklets, from two to six units per block.

Blocks may be taken in any order. The final block is the classroom component, which must be taken when all distance education blocks have been successfully completed. The classroom component is held at a location determined by the Fire & Safety Division.

Students can complete material at their own pace, but will be given a maximum of one year to complete a block. Each block is designed to be completed in 10 weeks although registration is intended to accommodate different schedules. A fee is charged for extensions. Any student who does not complete one block within one year may re-apply.

Each block ends with an exam. In order to complete a block, a student must receive a *successful* grade on all projects and the final block exam. On receipt of a successful final project, a tutor will request the Fire & Safety Division to generate an exam for the student. The student must apply for the next block.

**Block Exams** will be administered by the Liaison Officer and marked by the Fire & Safety Division.

## Support Personnel

### Tutors

In each block the student's progress is guided and evaluated by a Fire & Safety Division appointed tutor. The tutor evaluates block projects and informs the Division when the student is ready to write the block exam.

### Liaison Officers

The Fire Chief appoints a Liaison Officer to coordinate the delivery of the program within the Fire Department. The Liaison Officer (usually the Training Officer) provides support as necessary, supervises the writing of exams in the Fire Department and maintains records in the department..

## Course Materials

Course materials are sent out in blocks. The student registers for specific blocks in consultation with the Liaison Officer. Each course contains the following:

- *Course blocks*: presented as a series of printed booklets, each containing objectives, instructional material, self tests, practical exercises and projects to be completed. There is a basic tuition fee for each block.
- *Support materials*: for Liaison Officer and tutors.

*For more information on these programs call (604) 528-5657.*

## COMPANY OFFICER



### Fire Service Organisation

#### CO - 1

This block provides a review of organisations concerned with fire protection, with a focus on Canadian organisations at the federal, provincial and local levels. It also reviews the structure of the fire suppression organisation, the Company Officer's role in it, and the chain of command in line and staff functions.

*Self study hours:* 20

### Basic Fire Science

#### CO - 2

This block introduces basic chemical and physical principles underlying fire and hazardous materials behaviour in emergency situations. This includes vapour pressure and density, ignition temperatures, flash point and flammable limits, as well as other topics of concern to personnel involved in fire protection.

*Self study hours:* 40

### Fire Prevention and the Company Officer

#### CO - 3

This block introduces concepts in fire prevention for suppression officers at the company level. The material provides basic background information on fire prevention and discusses the important role that the Company Officer can play. Topics include an overview of pertinent legislation, community fire prevention programs and routine or survey inspections. The block offers specific instruction on identifying fire hazards in various building types, recognising dangerous goods and their unique hazards and visually inspecting fire protection systems such as automatic sprinklers and fire detection equipment. Some of the course work involves field exercises for hands-on experience in fire prevention-oriented activities.

*Self study hours:* 60

### Company Leadership

#### CO - 4

Company Leadership covers the leadership and administrative aspects of the Company Officer course and is designed to develop the relevant skills required at this level. Areas covered include situational leadership, maintaining morale among subordinates, handling complaints and disputes

as they arise, interpreting and implementing departmental policies relating to personnel and local administration, setting goals and objectives for the crew, planning and implementing training in conjunction with the Training Officer, safety awareness and interpersonal communication. The block presents a global and historical perspective on the nature and principles of leadership and follows this with a specific focus on leadership within the Fire Department.

*Self study hours:* 80

### Communication Skills

#### CO - 5

This block provides a short overview of principles of effective writing and speaking. Tips are presented on how to present information clearly and with impact. The skills gained from this block should prove helpful in all types of writing, including reports and memos, as well as public speaking and communication in general.

*Self study hours:* 20

### Records and Reports

#### CO - 6

Records and Reports addresses gathering, managing and using information in fire department operations. The major premise of this block is that information is a key element in the effective functioning of any size of fire department. Topics include exploration of the role of information within the fire service, understanding the place of the records system in managing information, production of both formal and informal reports, fire department records and computerised information systems. A suggested prerequisite for this block is Communication Skills (CO-5).

*Self study hours:* 40

### Technical Math

#### CO - 7

This block presents basic math skills for fire flow calculations such as volume and surface area. Frequent opportunities for practice in practical situations are provided. Units covered include whole numbers, fractions and decimals, percentages, averages, algebraic equations, powers and square roots, ratios and proportions and measurements of length, area and volume. It is assumed that the student has basic skills in addition, subtraction, multiplication and division.

*Self study hours:* 40



## Fire Cause Determination

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### CO - 8

This block provides an overview of fire cause indicators and emphasises the importance of preserving the scene for fire investigators in situations where the fire cause is not apparent.

*Self study hours:* 40

## Dangerous Goods

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### CO - 9

The Company Officer may be first on the scene of a dangerous goods incident. This block discusses the inherent hazards of dangerous goods, how to identify them under emergency conditions and how to assess a situation, determine the resources required and take appropriate initial action. The block also discusses the legal authority of the Company Officer to act under different circumstances, the legislation that affects safety in storage and transport of dangerous goods and national, provincial and local information sources. Some field work is involved.

*Self study hours:* 60

## Incident Command

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### CO - 10

Attending at a location as determined by the Fire & Safety Division, officers apply a model of incident command through scenario-based training. Also covered are the development and organisation of drills and scenarios and a segment on Company Officer contact with the media. The block provides an individualised training component.

*Prerequisites:* Completion of CO-1 to CO-9

*Location:* Maple Ridge Campus

*Duration:* 4 Days

A Certificate of Achievement will be awarded upon completion of this program.

## COMMAND OFFICER



## Advanced Communication Skills

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### CM - 1

This block extends the skills acquired in block CO-5 by presenting further methods to communicate clearly in writing and in speaking.

The block then focuses on speaking to groups, relating to the media and gaining increased awareness and skills in public relations between the fire department and the community it serves. A suggested prerequisites for this block is Communication Skills (CO-5).

*Self study hours:* 40

## General Physics

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### CM - 2

General Physics is an introductory course that familiarises the student with basic concepts of physics at a practical, operational level. The topics include the physical phenomena of heat, motion, electricity, magnetism, light, sound and radioactivity. This block also provides an appendix on metrics for those unacquainted with the SI system of measurement. A suggested prerequisites for this block is Technical Math (CO-7)

*Self study hours:* 40

## Major Emergency Planning

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### CM - 3

Major Emergency Planning presents principles of fire department planning and response to major emergencies within a local jurisdiction. Planning activities are outlined with attention given to assessing major fire hazards in a community, preparing the fire department component of a community major emergency plan and exercising the plan. Response strategies are discussed for actual or simulated major emergencies in terms of assessing the situation, determining the resources required, and deploying personnel and resources. The block also identifies the roles and responsibilities of the Command Officer in major emergency planning.

*Self study hours:* 80

## Fire Protection Systems and Water Supply Systems

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### CM - 4

Fire Protection Systems presents the basic types of fixed fire suppression systems, fire alarms, fire detection devices and water supply systems. This knowledge enables the Command Officer to recognise the different types of systems and their operation and applications and to discuss water supply and distribution requirements with appropriate persons and agencies. Suggested

prerequisites for this block are Fire Prevention & the Company Officer (CO-3) and Technical Math (CO-7).

*Self study hours:* 60

### **Industrial Fire Protection and the Command Officer**

#### **CM - 5**

This block presents an overview of the Command Officer's role in fire protection in the municipal-industrial setting. Roles and responsibilities are outlined in terms of decisions required to direct multi-company response to a major industrial fire. Topics include assessment of hazards; fire protection measures for each of the nine classes of dangerous goods; pertinent federal, provincial and local acts and regulations; and working with plant emergency response organisations and fire brigades. Some field work is required.

*Self study hours:* 60

### **Command Officer Leadership and Administration**

#### **CM - 6**

This block offers a detailed study of command leadership and communication, planning and achieving excellence, meeting the dollar challenge, achieving organisational effectiveness and managing people.

*Self study hours:* 80

### **Multi-Company Incident Command**

#### **CM - 7**

Officers apply a model of incident command requiring single company and multi-company responses. Common skills are developed using scenario-based training. The incident command model used in CO-10 Incident Command is expanded to cover incidents of increased complexity.

*Prerequisites:* Completion of CM-1 to CM-6

*Location:* Maple Ridge Campus

*Duration:* 4 Days

A Certificate of Achievement will be awarded upon completion of this program.

## **ADMINISTRATION OFFICER**



### **Executive Leadership and Communication**

#### **AO - 1**

This block focuses on the leadership role of the Administrative Officer. In addition to expanding the concepts of the leadership role, the block reviews the use of an effective team approach in managing a fire department. The block explores the central role of communication in enhancing Administrative Officer effectiveness, including meeting skills.

*Self study hours:* 100

### **The Social Environment**

#### **AO - 2**

The block focuses on the social environment in which a department functions, providing an overview of political, economic and legal aspects of our culture.

*Self study hours:* 20

### **Planning**

#### **AO - 3**

The focus of this block is on plans that can be used for the management of a fire department. It explores: assessment of needs and resources; choosing strategy based on these needs and resources; methods for using plans in an environment of change and uncertainty.

*Self study hours:* 100

### **Financial Management**

#### **AO - 4**

This block focuses on the financial aspects of administering a fire department, including an overview of municipal financing, consideration of capital financing, a detailed approach to budget preparation, management and control and the issued of cost management.

*Self Study hours:* 80

*Note:* AO-4 - AO-8 are not available at this time. Apply for transfer credit for identified courses from other institutions.



## Organisational Administration

### AO - 5

This block addresses organisational administration as a basis for the efficient operation of a fire department. It explores current trends in organisation structures and philosophies that help the Administrative Officer select and maintain the most effective organisation given the resources available. Various considerations for assigning human and other resources are discussed. Finally, structural and administrative considerations for developing and maintaining a modern and effective management information system are addressed.

*Self study hours:* 100

## Administering the Human Resource

### AO - 6

This block on personnel administration covers the establishment of effective guidelines, procedures and practices, with particular consideration given to the administration of effective human resource management in the context of municipal operations. In addition, information is provided on labour relations, the collective bargaining process, the administration of the collective agreement and day-to-day management of employee relations.

*Self study hours:* 120

## Public Relations

### AO - 7

This Block provides practical tools and knowledge in the area of public relations. Guidance is given on the establishment of appropriate policies and guidelines for the relationship between the department, the municipality and the community at large.

*Self study hours:* 80

## Risk Management for the Fire Service

### AO - 8

This workshop is led by legal experts, active risk managers and specialist in the field of risk management and is directed toward Fire Officers who are concerned with legal liability and actions in negligence. Participants will leave the workshop with a structured approach to risk management that they can implement in their own departments.

*Prerequisites:* Completion of AO-1 to AO-7 or by permission of the Director

*Location:* New Westminster Campus

*Duration:* 3 Days

A Certificate of Achievement will be awarded upon completion of this program.

## TRAINING OFFICER



## Training Officer

### TO-1

This block covers the skills required to effectively perform the function of a Fire Training Officer, including communication, learning concepts, planning a training program, presentation methods, training aids, evaluation and development.

The block will cover subjects such as: developing job skill profiles; developing performance objectives; determining performance discrepancies; developing training plans and training aids; planning and conducting a training session; and evaluating, training progress and program effectiveness.

*Self-study hours:* 100

## Training Officer Workshop

### TO-2

This workshop comprises four days of intensive practical application of knowledge gained in TO-1, enabling the prospective Training Officer to design and deliver training programs within the department. Also included are preparation and evaluation of checklists and developing and writing test questions, as well as Risk Management for the Training Officer. This workshop involves activity requiring candidates to be physically fit.

Activities will cover all areas of fire service training and are appropriate for personnel in suppression, fire prevention, dispatch, and public education. It can be adapted for others as needed.

*Prerequisite:* TO-1

*Location:* Maple Ridge Campus

*Duration:* 4 Days

*Certification:* Certificate of Achievement

## Fire Service Instructor

### FSI - 1

See page 44

## FIRE PREVENTION INSPECTOR



### Introduction to Fire Prevention

#### FPI - 1

This block discusses the background, philosophy and purpose of legislative aspects of fire prevention. It provides an overview of fire prevention and specific information on the fire problem and fire prevention in British Columbia, building a framework for the more detailed and technical blocks to follow. Other topics include the principles and goals of fire prevention practice; history and evolution of fire prevention; elements of the fire problem; issues and trends in fire prevention; fire prevention agencies and legislation at the federal provincial and local levels; and the role of the Fire Prevention Inspector. A suggested prerequisite for this block is Fire Service Organisation (CO-1)

*Self study hours:* 60

### Basic Fire Science\*

#### FPI - 2

This block is an introductory study of basic chemical and physical principles underlying fire and dangerous goods behaviour. The block looks at such subjects as vapour pressure and density, ignition temperature, flash point and flammable limits, as well as other topics of concern to personnel involved in fire prevention.

*Self study hours:* 40

*\*Students who have completed CO-2 need only complete a short exercise to obtain credit for FPI-2.*

### Blueprint Reading for the Fire Service

#### FPI - 3

This block familiarises the student with concepts of reading building construction drawings at an operational level. This information enables the Fire Prevention Inspector to check that building plans conform to the appropriate codes, bylaws and regulations. The student learns to read architectural, plumbing, electrical, mechanical and sprinkler piping blueprints.

*Self study hours:* 120

## Elements of Life and Fire Safety

#### FPI - 4

This block forms a foundation for the technical blocks that follow presenting detailed information on life and fire safety concepts pertaining to egress design, building construction types, occupancies and fire safety plans.

*Self study hours:* 60

## Fire Protection Systems and Extinguishers

#### FPI - 5

This block presents the basic types of fire protection systems including sprinklers, standpipe and hose systems, fire pumps, special extinguishing systems and portable fire extinguishers. The block offers a detailed study of each system, its operation and application and offers specific instructions on code requirements and fire prevention inspection procedures.

*Self study hours:* 100

## Signalling and Detection Systems

#### FPI - 6

This block presents an in-depth study of fire alarm systems and the various types of heat, smoke and flame detectors. The block also outlines code requirements for installing fire alarms for each type of occupancy hazard and specifies the inspection procedures.

*Self study hours:* 60

## Water Supply Systems

#### FPI - 7

This block covers details of water supply systems for private fire protection, water flow in pipes and hydrants and fire flow requirements. Water supply systems covered include gravity tanks, pressure tanks and fire pumps. This block focuses on the operation of each system, code requirements and inspections.

*Self study hours:* 60

## Building Systems and Hazards

#### FPI - 8

This block presents the various services and systems that provide power, environmental control and convenience for a building. The

course material provides the Fire Prevention Inspector candidate with a broad knowledge of fire hazards and fire protection associated with electrical systems and appliances, air conditioning and ventilation, heating systems, cooking equipment, materials and waste handling, housekeeping and storage systems. Each unit concludes with specific guidance on code requirements and how to inspect target building systems.

*Self study hours:* 60

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## **Hazardous Materials**

### **FPI - 9**

This block gives the student an understanding of the duties and responsibilities of a Fire Prevention Inspector regarding hazardous materials, as set out in the Fire Services Act. It describes the classification of hazardous materials, their identification and the hazards they pose. It also outlines the responsibilities of other authorities in this area as well as procedures for co-operating to ensure safe handling, use and storage of these materials.

*Self study hours:* 60

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## **Flammable & Combustible Liquids and Compressed & Liquefied Gases**

### **FPI - 10**

As a supplement to the preceding block, this block concentrates on the two most important hazardous material classifications. It gives the student an understanding of their characteristics, their specific fire and explosion hazards and the regulations under the British Columbia Fire Code governing their handling, storage and use. It

describes procedures for inspection for leaks in containers and transfer systems and for abatement of fire hazards associated with leaks and spills, as well as describing the role of other agencies having jurisdiction.

*Self study hours:* 60

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## **Fire Prevention Practices**

### **FPI - 11**

This block focuses on the practice of fire prevention on a day-to-day basis and the application of fire prevention theory and technical principles to the fire problem in the community. It concludes the in-field part of the course by examining the specific fire prevention activities carried out by the Fire Prevention Inspector. Topics covered include: fire prevention Inspections; code enforcement methods; fire safety plans; public education; fire cause determination; duties of an Local Assistant to Fire Commissioner (LAFC); legal remedies; and judicial aspects of fire prevention activities such as evidence and testimony.

*Self study hours:* 60

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## **Fire Prevention Workshop**

### **FPI - 12**

Hands-on practice inspecting fire detection systems, extinguishing systems and buildings.

*Prerequisite:* FPI -1 through FPI - 11

*Location:* New Westminster Campus

*Duration:* 4 Days

A Certificate of Achievement will be awarded upon completion of this program.

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# Diploma Program in the Fire Service

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## Purpose of the Program

This program is designed to enable current and experienced fire service personnel to obtain a recognised Diploma in Fire Services in British Columbia. The program is being offered through the collaboration of the JI Fire & Safety Division and the Open College (OU) component of the Open Learning Agency (OLA).

While all courses are available by distance education, many courses can also be taken at recognised community colleges or universities and can subsequently be transferred through the British Columbia Educational Credit Bank. Students should check with OLA advisors regarding equivalence and transferability of other courses for credit to this diploma.

## Who

Those most likely to enrol in this program are career and volunteer fire fighters, occupational health and safety personnel and industrial fire service personnel. Others who may also be interested in the program include personnel of the insurance and the fire protection industries, military and airport fire fighters, commercial suppliers and educators in the fire services.

This program will not provide practical training and is intended for administration officers. It is intended for persons currently employed in senior levels of the fire service or other safety disciplines.

## Design of the Program

In order to complete this program, students must earn sixty (60) credits, usually consisting of twenty (20) individual three-credit courses. A listing of suitable Open College, Open University

and Justice Institute courses follows. However, acceptable courses from other institutions may substitute for these courses. Consult an OLA advisor to determine equivalence and transferability.

## Admission and Recommended Preparation

An open admission policy applies to Open College and Open University courses for Canadian residents 18 years of age or older and have completed Grade 12 or equivalent. Applications from other individuals will be reviewed on an individual basis.

Some courses require access to personal computer equipment.

If you are interested in pursuing this diploma program, contact an OLA Access advisor to plan your program.

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**OLA Access advisors are available at  
1-800-663-9711 or 431-3300.**

**For information on Justice Institute courses  
contact the Fire & Safety Division at 528-5657.**

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## Courses

The following courses, or equivalents obtained elsewhere, are required to complete the Diploma Program. If you plan to enrol in courses other than those listed on the following page, check with an OLA advisor to ensure equivalency.

Suggested prerequisites are identified in [ ].

Courses are offered by the following:

(JI) = Justice Institute of BC

(OU) = Open University

## Fire Services Courses

**(I)**

Course	Description	Credits
FIRE 200	Fire Science [CHEM 110 and PHYS 110]	3
FIRE 201	Fire Service Organisation	3
FIRE 211	Legal Aspects of Fire Protection	3
FIRE 212	Life and Fire Safety	3
<b>SUBTOTAL:</b>		<b>12 CREDITS</b>

- Physics 110 and Chemistry 110 or equivalent must be completed prior to taking FIRE 200.
- Students must complete 12 credits of course work before beginning FIRE 211 & 212.
- Students must provide the Justice Institute with transcripts or statements of grades documenting required prerequisite completion.

**(OU)**

Course	Description	Credits
ADMIN 231	Introduction to Financial Accounting	3
ENGL 301	Practical Writing [ENGL 100 & 101]	3
CMPT 110	Computer Concept	3 or 4
CMPT 211	Forecasting and Control for Management	3
CMPT 214	Computer Tools for Management	3
MATH 102	Introduction to Probability and Statistics [Algebra 11 or 12 or An Introductory Statistics course]	3
MATH 101	Calculus for Biology and Social Sciences [Algebra 12]	3
ECON 200	Introduction to Microeconomics [Introductory Physics course; alternatives must be university transferable]	3
CHEM 110	Introduction to Chemistry I [Algebra 12 and Chemistry 11 or an introductory Chemistry course; alternatives must be university transferable]	3
<b>SUBTOTAL:</b>		<b>27 CREDITS</b>

## Other General Education Requirements

Course Description	Credits
<ul style="list-style-type: none"> <li>• Two courses of 1<sup>st</sup> year English (literature/composition): e.g., ENGL 100 (OU), ENGL 101 (OU), ENGL 102 (OU), and ENGL 103 (OU) [English 12].</li> </ul>	6
<ul style="list-style-type: none"> <li>• Two courses of Social Sciences (at least 3 credits at the 200-level): e.g., Anthropology, Economics, Geography (not Physical Geography), Criminology, Political Science, Psychology, Sociology, Social Sciences.</li> </ul>	6
<ul style="list-style-type: none"> <li>• One course of Humanities (at 200 level) other than English: e.g., History, HUMN 200 (OU), Philosophy, Religious Studies [ENGL 100 or 102].</li> </ul>	3
<b>SUBTOTAL:</b>	<b>15 CREDITS</b>

## Electives

Course Description	Credits
Two unspecified courses eligible for transfer to university programs: at least 3 credits must be at the 200-level or higher. Choice of elective courses should be discussed with an academic advisor.	6
Courses from the following areas are acceptable: Education, Business and Administrative Studies, Criminology, Management, Sociology, Psychology, Mathematics, Science.	
<b>SUBTOTAL:</b>	<b>6 CREDITS</b>
<b>TOTAL:</b>	<b>60 CREDITS</b>

## COURSE DESCRIPTIONS

### Fire Science

#### Fire 200

Fire Science is the application of scientific principles and methodology to the study of fire phenomena and the prevention and suppression of fire. The course studies the chemical and physical basis for ignition, combustion and fire spread in gases, liquids and solids; the hazards of

toxic fire products and dangerous goods; and the technology of fire extinguishment and prevention.

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### **Fire Service Organisation**

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#### **Fire 201**

This course studies the relation between federal, provincial and local governments in relation to fire suppression and fire prevention organisations. It reviews Canadian government structure, and the different responsibilities of the various levels and sectors. The issue of emergency planning is used as a case study of the workings of the various levels of government.

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### **Legal Aspects of Fire Protection**

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#### **Fire 211**

Legal Aspects of Fire Protection looks at the legislative basis for fire protection. It studies the justice system, including the legal superstructure that governs the fire service and related agencies and services. Attention is given to the legal roles, rights and responsibilities of members of the fire

service, and the management of risk in relation to legal liability.

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### **Life and Fire Safety**

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#### **Fire 212**

This course investigates the relation between human behaviour in panic situations and the design of buildings. Concepts include egress design, occupancies and fire safety plans. The student is introduced to the current debate in the literature on human psychology and social behaviour in emergencies, and theoretical and practical considerations in the design of structures to improve life safety.

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#### **TO REGISTER**

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1. Contact the Fire and Safety Division at 528-5657 and speak to a co-ordinator.
  2. Contact an Open Learning Agency Advisor at 1-800-663-9711 or 431-3300.
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# Fire Fighter Training Program

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## FIRE 101



### Purpose of the Program

The Fire Fighter Training Program is a 12 week program scheduled in the Spring and the Fall (specific dates to be announced) of each year. The purpose of the program is to prepare individuals to apply for positions in the fire service.

### Information Packages & Screening

An advertisement in the Sun and Province papers will initiate the screening process for the program. At that time, information packages will be available through the Registration Office of the Justice Institute giving detailed information the student needs to take to be admitted into the program.

### Admission Requirements

Applicants must meet all required qualifications to be considered for admission into the Fire Fighter Training Program.

### Required Qualifications

- Legal entitlement to work in Canada as a Fire Fighter;
- High school graduation and successful completion of one year post secondary education (ie academic, technical trades) or an acceptable equivalent;
- Valid BC Driver's License, class 3 with air, and a driving record that demonstrates responsible and safe driving behaviour. More than six points in the last three years is considered excessive;
- No conviction for a criminal offence related to the job of a Fire Fighter;
- 20/30 visual acuity unaided and uncorrected. Colour and peripheral vision safe for the position of Fire Fighter.
- Normal unaided hearing;
- Physically fit for the position of Fire Fighter.

### Other Preferred Qualifications

- Minimum of one year accumulated work experience after high school, preferably in work related to the needs of the Fire Service. (For example: building construction, mechanical experience, driving large or emergency vehicles, fire service, first aid, nursing, paramedical experience, truck driving etc.);
- Successful completion of a post-secondary education program (for example: academic, technical or trades training);
- Ability to swim and preferably related life saving certificates;
- Fire service related courses;
- Knowledge and understanding of different cultures and fluency in a language(s) other than English. (Could include sign language).

### Admission Procedure

#### Step 1: Entry Level Fire Fighter Written Exam

Students are required to pass an Entry Level Fire Fighter Written Exam. The exam tests: understanding of oral information; understanding of written fire fighting material; mechanical and three-dimensional diagrams; mathematical skill; and ability to get along with others.

#### Step 2: Medical Exam

The Fire & Safety Division is required to ensure all students pass a medical exam to the NFPA Standard 1582 (Chapter 3).

Fire fighting and emergency response is physically demanding. Students enrolling in this program must perform functions which are physically and psychologically very demanding and these functions must often be performed under very difficult conditions. Therefore, you will receive a comprehensive medical evaluation related to these occupational requirements.

This occupational examination is not covered by the Medical Services Plan. The charge for this occupational medical evaluation will be \$200.00, payable by cash, certified cheque, Visa or Mastercard at the time of the examination. Fees for no show or late cancellations will be \$100.00.

The minimum cancellation time required is two (2) working days.

### **Step 3: Physical Performance Assessment**

The Fire & Safety Division is required to ensure that a physical performance assessment to the NFPA Recommended Practice 1583 for Physical Fitness is successfully completed by all students. FireFit of Canada Ltd. conducts the Physical Performance Assessment for the Division.

### **Step 4: Interview**

After all this information is received at the Justice Institute Registration Office, the Fire & Safety Division will review the resumes and determine a short list for interviews. The list of students to be interviewed will be determined from those applicants who do well on all components of the screening process. Only those students required for an interview will be contacted.

The interviews will be structured on behavioural based questions which identify certain personal attributes the Fire Service expects a fire fighter to possess.

## **Program Content**

Students will be trained in all aspects of the BC Fire Fighter Standards Level I and II and to First Responder Level III. Students will also meet the National Fire Protection Association (NFPA) 1001 Level I & II Standard.

Students will learn through theory, lectures and practice drills and will be examined on the following subjects:

- Fire Department Organisation
- Fire Behaviour
- Portable Extinguishers
- Fire Fighter Personal Protection Equipment
- Ropes and Knots
- Rescue and Extrication
- Forcible Entry
- Ventilation
- Ladders
- Water Supply
- Fire Streams
- Hose
- Fire Control
- Automatic Sprinkler Systems
- Salvage and Overhaul
- Building Construction
- Fire Fighter Responsibility in Fire Cause Determination
- Fire Prevention and Public Fire Education
- Fire Alarms and Communications
- Fire Fighter Safety
- First Responder Level III & Automatic External Defibrillators (AED)
- Spinal Management
- Hazardous Materials Awareness Level
- Hazardous Materials Operations Level

*For more information on this program call (604)528-5657.*



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## Fire Officer Program

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The Fire & Safety Division is developing a Fire Officer Program to be delivered in a classroom or mixed delivery format.

This program will be based on the 1997 NFPA Fire Officer Standard and also meet the 1997 BC Fire Officer Standard. The Fire & Safety Division is in a position to offer Fire Officer I in a pilot format starting February 19, 1997. Fire Officer I is the first level in a four level program. As the program is being offered Fire Officer II is being developed and will be available late in 1998 or early 1999. The long range goal is to be able to deliver Fire Officer III and IV in the near future as well.

*For more information contact (604) 528-5657.*

### Fire Officer I - Classroom

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The course is directed at developing the knowledge and skills required to manage and lead in the fire service, handle the responsibility of command and carry out the initial response to an incident.

*Who should attend:*

Current and aspiring officers

*Prerequisite:*

Fire fighter

*Presentation:*

1 day/week over 14 weeks -Classroom format

*Location:*

New Westminster Campus or field if minimum 15 students

*Certification:*

Fire Officer I NFPA BC

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## Fire Service Instructor

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### Fire Service Instructor I

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#### FSI - I

This is the first of three modules that will lead to completion of the Fire Service Instructor program. FSI - I is delivered in a face to face module and combines both theory and practical activities that meet the British Columbia Fire Service Instructor Standard Level I. FSI - I is appropriate for fire department personnel who are responsible for training. This includes suppression, prevention, public education, dispatch, and officer candidate personnel and possibly others.

Fire Service Instructor I was developed in association with the BC Fire Training Officers' Association and can be delivered at various locations around the province.

Fire Service Instructor II and III are under development and will follow the same format as FSI - I.

*For more information contact (604) 528-5657.*

*Prerequisite:*

Fire service members responsible for training

*Presentation:*

2 day workshop and hands on practical

*Location:*

Various locations around Province

*Certification:*

Certificate of Achievement.

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# Industrial High Angle Rope Rescue Certificate Program

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The Industrial High Angle Rope Rescue certificate program is now available through the JI Fire &

Safety Division, Fire Academy to fire departments, industrial, marine and other users who have a need or requirement for this type of rescue capacity. The Industrial High Angle Rope Rescue program is conducted on a train-the-trainer basis in four modules covering the following areas:

- Introduction to Rope Rescue and Basic Skills - 5 days
- Intermediate Rope Rescue Skills - 5 days
- Instructional Techniques - 2 days
- Tower Crane Rescue Techniques - 3 day

This program is open and available to users who have a need for heavy industrial type rescue and is not a substitute or alternate to light-weight wilderness oriented rescue. Some funding through Workers' Compensation Board is available to designated departments.

The program has been training fire service trainers in co-operation with the construction industry and Workers' Compensation Board to satisfy crane rescue requirements on construction sites. The initial objectives of that program have been met and the program is now being offered to a broader range of users on a fee-for-service basis. For additional information regarding the availability of this program please contact the Fire and Safety Division, Fire Academy at (604) 528-5657.

*Who should attend:*

Fire service personnel and industrial rescuers

*Prerequisites:*

None

*Presentation:*

15 days - 4 modules

*Location:*

New Westminster campus or as arranged

*Certification:*

Certificate of Achievement

**Notes:**





JI  
**JUSTICE  
INSTITUTE  
OF B.C.**

**FIRE & SAFETY DIVISION**

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