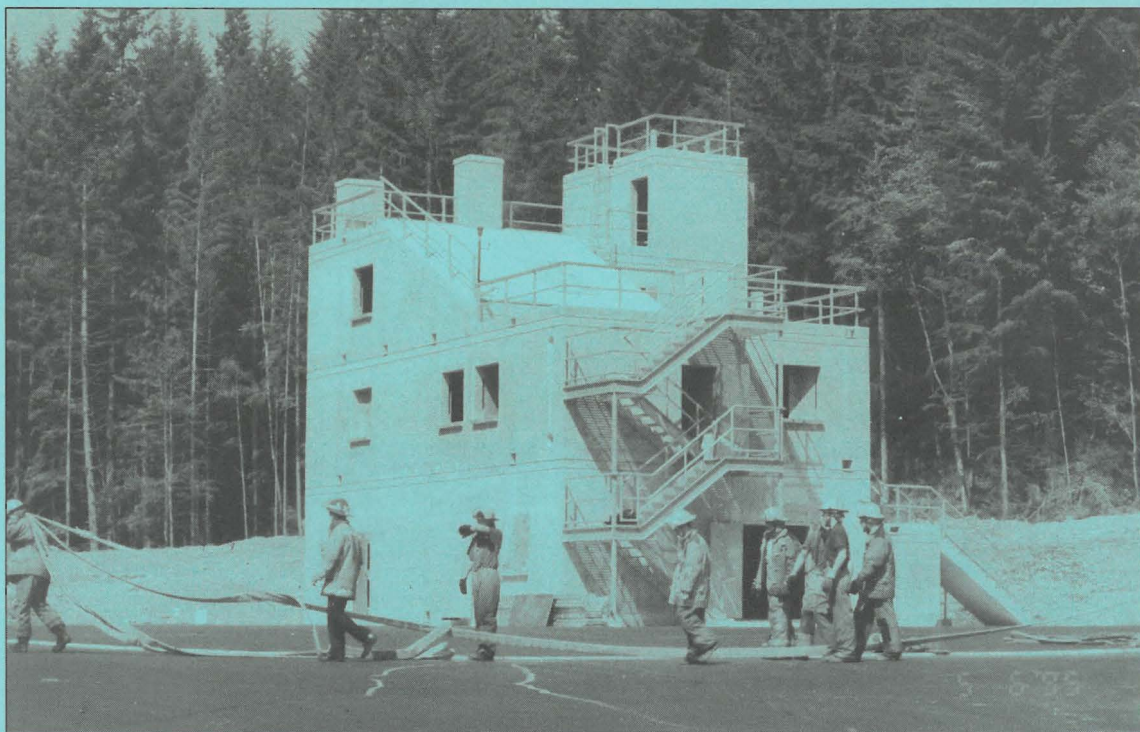
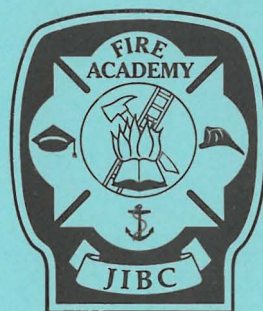


FIRE ACADEMY



COURSE CATALOG



1995/96

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FIRE ACADEMY

COURSE CATALOG

1995/1996

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DIRECTOR'S COMMENTS

Today's changing society has created a greater need for training than ever before. This is especially true where the fire service and industry is involved. The Fire Service is being challenged to provide certified training for its members to keep up with new technologies and at the same time find creative methods to fund the training within budget limitations.

This catalog has been prepared to assist individuals in planning for training and begins the process by which training programs are designed so that credit can be applied to career path opportunities. Some programs have been modified, others remain the same and new programs have been designed. These changes have been achieved through working partnerships with government, municipalities, fire departments and industry. These types of arrangements will be critical to meeting everyone's needs in the future.

I would like to take this opportunity to thank all involved for their support. We look forward to greater partnerships in a challenging and exciting future.

Paul C. Smith, Director

FIRE ACADEMY MISSION STATEMENT

To develop and provide training programs and services consistent with the needs identified by the Fire Commissioner and the Fire Services Community of British Columbia.

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GOALS AND MISSION STATEMENTS

JI MISSION

The JI, a post-secondary education institution, enhances the quality of justice and public safety by developing and delivering training programs and educational services to practitioners and the public.

JI GOALS

To develop and deliver training programs, services, and products consistent with the identified needs of the ministries responsible for justice and public safety.

To promote, develop, and deliver other justice, public safety, and related human services educational and training programs, services, and products to government ministries, private agencies, community groups, and interested individuals.

To assist ministries responsible for justice and public safety in developing training standards.

To assist ministries responsible for justice and public safety in defining training needs and priorities.

To share services, resources, and expertise within the JI, and engage in partnerships with other organizations to ensure effective standards development, training needs analysis, and program delivery.

To demonstrate leadership and creativity in the development of instructional methods and technology for justice, public safety, and related human services education.

To maintain a learning environment which encourages creative interaction among and between JI staff, clients and customers.

To effectively communicate JI training and educational opportunities to current and potential clients and customers.

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COURSE MAPPING

The Academy is introducing mapping in this catalog. The concept of mapping is in a development stage and we will be expanding it to cover all our courses.

The objective of the maps is to give clients a quick view of courses required as they progress through different jobs.

For example, the Fire Fighter Map shows the courses available in this category at Basic, Intermediate and Advanced levels. This feature will help you plan your training.

CUSTOM DESIGNED COURSES

The Academy will, depending on circumstances, develop courses to meet local/specific needs. All such courses are designed in consultation with the client, and with reference to appropriate standards. Courses may be presented at the client's facility.

Examples of such training courses include:

Fire Department — Officer Development, Experienced Fire Fighter, Live Fire Training.

Industry — Team Training for Industrial Fire Fighting, Site and Product Specific Hazmat Training.

Marine — Vehicle Fires, Courses for Ferry Employees.

For further information or for the design of a course specific to your needs, contact the Fire and Safety Training Centre Campus, and ask for a Program Manager.

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JUSTICE INSTITUTE CAMPUS

The Justice Institute Campus is in an accessible location in New Westminster at 715 McBride Boulevard. The modern facility is designed to accommodate the specialized 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.

Fire Academy main offices are on the third floor of the office block. Our secondary office will be maintained at the Fire and Safety Training Centre at Maple Ridge, the site of much of the live burning training.

New address and phone numbers for the JI:

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

General Inquiries	525-5422
Registration	528-5589
Finance and Administration	528-5500
Corrections Academy	528-5531
Courts Academy	528-5567
Career and Community Studies Division and Educational Services	528-5608
Fire Academy	528-5657
Fire and Safety Training Centre, Maple Ridge	462-1000
Library	528-5599
Media Centre	528-5600
Paramedic Academy	528-5707
Police Academy	528-5753
Provincial Emergency Program Academy	528-5790

FIRE AND SAFETY TRAINING CENTRE

LOCATION

See Directions and Map next page

ACCOMMODATION

Many motels in the area offer discounts to students. Mention your student status when booking rooms.

PARKING

Parking is available at no charge. Follow the signs. Student vehicles are not allowed on the training grounds.

SCBA

Some courses require use of Self Contained Breathing Apparatus (SCBA). To wear SCBA it is required that the face be clean shaven where the mask fits (i.e. no beard, moustaches are permitted). This is a requirement of Canadian Coast Guard, Workers' Compensation Board and the Canadian Standards Association.

EYEWEAR

Prescription safety glasses may be worn while wearing SCBA if in an approved holder so that the seal will not be affected.

LIFTING

You will be required to lift up to 50 pounds for some courses.

CLEAN UP

Showers and soap are provided. Bring a towel.

LUNCH

Supply your own lunch unless otherwise notified.

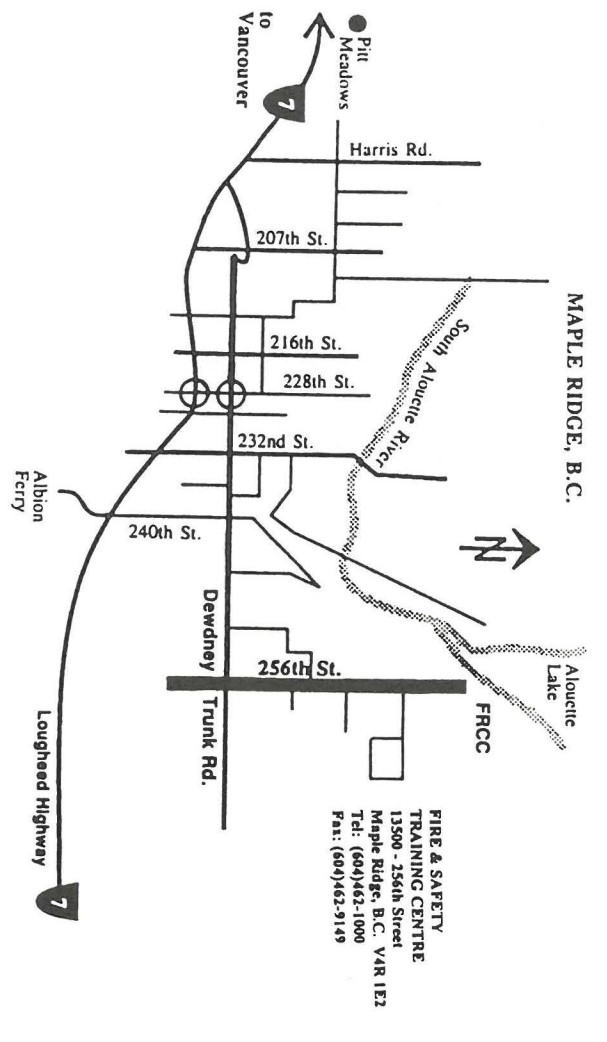
LOCATION:

Lougheed Highway (No. 7) to Maple Ridge; Turn left at 224th Street or 228th Street to Dewdney Trunk Rd; East on Dewdney Trunk Road to 256th Street.

North onto 256th Street and follow the signs. The Centre is three kilometres north of Dewdney Trunk Road. Turn right on gravel road and park in the lot. Enter by the stairs indicated. Main gate opens at 0800.

Fire Safety Training Centre
13500 - 256th Street
Maple Ridge, BC V4R 1E2

Telephone (604) 462-1000
Fax (604) 462-9149



LIBRARY SERVICES

Members of fire departments are granted borrowing privileges. A library card is not required. Borrowers are responsible for loss or damage to materials.

The library has videos, slides, books and magazines on public safety and justice topics.

Topics include:

- Training
- Fire Behaviour
- Management
- Disasters and hazardous materials
- Fire prevention and suppression
- Apparatus and equipment
- Smoke and ventilation
- Rescue and first aid
- Fire investigation

Audio visual catalogs listing videos and slides are available for \$7.00; send order with payment to the JIBC Library.

Materials may be borrowed by mail or in person.

Materials are provided in response to specific requests for information. Please contact the library directly.

Library News, a monthly newsletter mailed to Fire Departments, lists new books and audio visual materials.

For further information contact the Librarian at 528-5599.

REGISTRATION POLICY AND PROCEDURE

IT'S EASY!

Do it Early!

Register early to avoid disappointment; many courses fill quickly. Registrations are accepted on a first-come, first-served basis. Registration cannot be completed until we receive full payment. *No post dated cheques will be accepted.*

By phone

Register by phone at (604) 528-5589 weekdays, 8:30 am - 4 p.m. Have VISA or Mastercard number and expiry date ready when calling. Quote the Registration Code (i.e. NC-01) when registering. If you do not have this, give a clear description of the course, and if possible the date you wish to take it.

Tax Deduction

Tuition fees may be deducted from your income tax if the total amount exceeds \$100 and is paid to one educational institution. Deductions may be claimed for one or more courses taken during the tax year. Courses are GST exempt.

Refund Policy

Registration fees are refundable provided we receive notification of cancellation seven working days before the course date. Refunds are subject to an administrative charge. The white copy of the registration receipt must be returned to the Justice Institute in order to process refunds.

NSF Cheques

Fee of \$15 applies to all cheques returned NSF

Transfers

Notification regarding transfer from one course to another must be received seven working days in advance of course date. There is an administrative fee of \$15 for all transfers.

Problems

You will be contacted by the JI if there are any problems with your registration

Disabilities

Help us help you. If you have special requirements, please call us.

Cancellations

A full refund of tuition fees will be issued for courses cancelled by the Justice Institute Fire Academy. The Institute is not responsible for participant's expenses (e.g., airline or hotel reservations) if a course must be cancelled because of low enrollment.

COURSE FEES

COURSES OPEN TO THE PUBLIC

Introduction to the Fire Service - Part I	\$150.00
Introduction to the Fire Service - Part II	\$175.00
Fire Fighter Fitness Development Clinic.....	\$185.00
Fire Safety at Work DE-2	\$300.00
Distance Education	\$250.00
Basic Fire Science NC-02	\$195.00
Distance Education	\$165.00
Technical Math DE-05	\$195.00
Distance Education	\$165.00
General Physics NC-07	\$195.00
Distance Education	\$165.00
Driving with Finesse	\$165.00
Basic Extinguisher Training	\$ 90.00
Auto Extrication Level I	\$190.00
Auto Extrication Level II.....	\$315.00
Hazardous Materials Awareness	\$215.00
Hazmat Materials Operations.....	\$565.00
Hazmat Materials Technician.....	\$610.00

COURSES OPEN TO THE FIRE SERVICE

Hazmat Materials Awareness.....	\$215.00
Hazmat Materials Operations (5 day)	\$565.00
Hazmat Materials Operations (3 day)	\$350.00
Hazmat Materials Technician	\$610.00
Industrial Fire Fighting	\$721.00
Strategies & Tactics.....	\$225.00
Auto X Level 1	\$190.00
Driving with Finesse	\$165.00
Emergency Vehicle Driver Training.....	\$150.00
Auto X Level 2.....	\$315.00
Shipboard Fire Fighting.....	\$515.00
Basic Tank Car Safety.	\$441.00
BC Ferries Car Fires	\$340.00
Refinery Fire Fighting Level II.....	\$200.00
Live Fire Training Level 1.....	FSTC \$275.00, Nanaimo \$315.00
Live Fire Training Level 2.....	FSTC \$275.00, Nanaimo \$315.00
Field Training Programs & Prices (see page 3-8)	

TRAINING OFFICER and FIRE PREVENTION INSPECTOR

No Block fee is charged for individuals enrolled in these programs when the primary function of the individual is training or conducting fire inspections. It will be the responsibility of the Fire Chief to identify the primary function of the individual enrolling in the program.

In cases where it is not the primary function of the individual, but “nice to have” for the Training Officer or Fire Prevention Inspector program, there will be a **\$50.00** Block charge.

COURSES SPECIFIC TO THE VOLUNTEER FIRE SERVICE

	PRICE TO BC FIRE SERVICE	PRICE TO NON-BC FIRE SERVICE (Canada)	PRICE TO NON-BC FIRE SERVICE (Outside Canada)
Edukits			
print material (GST)	\$40.00	\$60.00	\$120.00
binder (GST/PST)	5.00	5.00	10.00
tape (GST/PST)	20.00	40.00	80.00
Complete Edukit	61.93	120.00	210.00
Fire Safety at Work	60.00	120.00	140.00
Workbooks			
Incident Command	10.00	15.00	20.00
(IC) Dangerous Goods	10.00	15.00	20.00
Risk Management	10.00	15.00	20.00

TRAINING AND EDUCATION PROGRAM FOR THE PROFESSIONAL FIRE SERVICE

Non B.C. Fire Service Fee Schedule

COMPANY OFFICER

CO-01	Fire Service Organization	50.00
CO-02	Basic Fire Science.....	100.00
CO-03	Fire Prevention and the Company Officer	150.00
CO-04	Company Leadership	200.00
CO-05	Communication Skills.....	50.00
CO-06	Records and Reports	100.00
CO-07	Technical Math	100.00
CO-08	Fire Cause Determination	100.00
CO-09	Dangerous Goods.....	150.00
CO-10	Incident Command.....	TBA

COMMAND OFFICER

CM-01	Advanced Communication Skills	100.00
CM-02	General Physics.....	100.00
CM-03	Major Emergency Planning	200.00
CM-04	Fire Protection Systems and Water Supply Systems	150.00
CM-05	Industrial Fire Protection and the Command Officer.....	150.00
CM-06	Command Officer Leadership and Administration.....	200.00
CM-07	Multi Company Incident Command	TBA

ADMINISTRATION OFFICER

AO-01	Executive Leadership and Communication	210.00
AO-02	The Social Environment	80.00
AO-03	Planning	250.00

(Transfer credit granted for the following AO Blocks)

AO-04	Financial Management
AO-05	Organizational Administrations
AO-06	Administering the Human Resource
AO-07	Public Relations
AO-08	Risk Management for the Fire Service

(All prices subject to change without notice)

TRAINING OFFICER

TO-1	Training Officer	210.00
TO-2	Training Officer Workshop.....	TBA

FIRE PREVENTION INSPECTOR

FPI-1	Introduction to Fire Prevention.....	150.00
FPI-2	Fire Science.....	150.00
FPI-3	Blueprint Reading for the Fire Service	290.00
FPI-4	Elements of Life and Fire Safety	150.00
FPI-5	Fire Protection Systems and Extinguishers.....	210.00
FPI-6	Signalling and Detection Systems	150.00
FPI-7	Water Supply Systems	150.00
FPI-8	Building Systems and Hazards	150.00
FPI-9	Hazardous Materials	150.00

(Availability of the following FPI blocks pending completion of block development)

FPI-10	Flammable and Combustible Liquids and Compressed and Liquefied Gases.....	150.00
FPI-11	Fire Prevention Practice.....	150.00
FPI-12	Fire Prevention Workshop	TBA

(All prices subject to change without notice)

COURSES SPECIFIC TO THE CAREER FIRE SERVICE TRAINING AND EDUCATION PROGRAM Career BC Fire Service

Company Officer	50.00/Block
Command Officer	50.00/Block
Administration Officer.....	50.00/Block

MEMORABILIA

T-shirts	Navy Blue	L, XL	\$14.00
		XXL	\$15.00
Baseball Cap	Navy Blue		\$12.00
Jackets	Bomber Style	L, XL	\$38.00
	Navy Blue	XXL	\$39.00
Golf Shirts	Navy Blue, Grey		\$34.00
Sport Bags	Black and Red		\$39.00
JI Pins			\$2.00
Crests			\$8.00
Pens			\$1.00

All items include PST and GST

For mail out orders, add \$3.00

Items may be purchased at the Maple Ridge Campus.

For out of town orders, contact the Administrative Assistant at the Fire Academy in New Westminster.

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OPEN COURSES

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COURSE MAP

GENERAL PUBLIC		
COURSE MAP		
Basic	Intermediate	Advanced
Introduction to the Fire Service - Part I	Basic Fire Science	Hazardous Materials Technician
Introduction to the Fire Service - Part II	General Physics	Diploma in Fire Services Program
Hazardous Materials Awareness	Technical Math	Recruit Fire Fighter Program
Basic Extinguisher Training	Hazardous Materials Operations	Auto Extrication - Level II
	Auto Extrication - Level I	Industrial Fire Fighting
	Driving With Finesse	
	Fire Safety at Work	
	Fire Fighter Fitness Development Clinic	

INTRODUCTION TO THE FIRE SERVICE - PART I

Who Should Attend:	This course is designed to introduce people to a career in the Fire Service.
Prerequisites:	None
Presentation:	Fire service professionals present various topics relevant to employment in the fire service.
Duration:	2½ days Friday 1900 - 2200 Saturday, Sunday 0830 - 1700
Location:	JIBC - New Westminster Campus

Course Content

1. Career planning.
2. Physical performance.
3. Safety and equipment.
4. Fire prevention inspection.
5. Dangerous goods.
6. Fire department organization and culture.
7. Critical incident stress.

Note: Specific topics may change with availability of instructors and as current issues in the fire service arise.

INTRODUCTION TO THE FIRE SERVICE - PART II

(FIELD EXERCISE)

Who Should Attend:	Candidates who wish to explore the possibilities of a career in the fire service.
Prerequisites:	Introduction to the Fire Service - Part I
Presentation:	Practical hands-on training in basic fire fighting skills.
Duration:	2 days 0830 - 1630 daily
Location:	Fire and Safety Training Centre, Maple Ridge Campus

Course Content

1. Fire behaviour.
2. Safety and protective clothing.
3. Extinguishers (with live fire).
4. Self contained breathing apparatus (SCBA).
5. Hose and nozzle familiarization.

FIRE FIGHTER FITNESS DEVELOPMENT CLINIC

Who Should Attend:	This course has been designed to allow people that are interested in a career with the Fire Service to learn about the Physical Performance Assessment (PPA) system used by the Fire Academy to assess recruits. See Recruit Fire Fighter Program, Step 3.
Prerequisites:	Basic medical clearance
Presentation:	This course was developed in partnership with FireFit Canada Ltd. Candidates will be asked to perform various physical fitness tests. Candidates will have access to combat test equipment and the FireFit Chief Training Officer.
Duration:	2-3 days over 3 week period
Location:	Fire and Safety Training Centre, Maple Ridge Campus

Course Content

1. Physical Performance Assessment
2. Individual Fitness Evaluation
3. Combat Test

As a first step, the Development Clinic will give you an idea of the considerable time and commitment it takes to do well on the PPA. It will help you identify your strengths and weaknesses and provide you with a personalized training program to work with. It will also give you the opportunity to decide if a career in the Fire Service is something you want to pursue.

EXTENSION PROGRAMS

BASIC FIRE SCIENCE

Who Should Attend:	This course has been designed for fire service personnel but is applicable to non-fire service personnel who need a fundamental understanding of fire and flammable materials, and to members of the public with an interest in fire safety.
Prerequisites:	None
Presentation:	Self Study. Candidates will have access to a tutor by telephone.
Duration:	40 hours - Self Study
Location:	Basic Fire Science is offered in a classroom format at the JIBC, New Westminster Campus, two or three times per year, depending on registration demand. Classes are limited to 36 students and are offered over a six week period, one evening a week for two and a half hours. If there is sufficient demand Basic Fire Science can be offered in other locations around the province.

Course Content

Introductory level study of basic chemical and physical principles underlying fire and dangerous goods behaviour in emergency situations.

1. Vapour pressure.
2. Combustion.
3. Elements of fire suppression.

TECHNICAL MATH

Who Should Attend:	Those who require basic math skills needed for fire flow calculations such as volume and surface area.
Prerequisites:	Basic skills in addition, subtraction, multiplication and division.
Presentation:	Self Study. Candidates will have access to a tutor by telephone.
Duration:	40 hours - Self Study
Location:	Technical Math is offered in a classroom format at the JIBC New Westminster Campus two or three times per year, depending on registration demand. Classes are limited to 36 students and are offered over a six week period, one evening a week for two and a half hours. If there is sufficient demand Technical Math can be offered in other locations around the province.

Course Content

1. Whole numbers.
2. Fractions.
3. Decimals.
4. Percentages.
5. Averages.
6. Algebraic equations.
7. Powers and square roots.

GENERAL PHYSICS

Who Should Attend:	This course is designed for fire service personnel but is applicable to graduates of Basic Fire Science who would like a more in-depth understanding of the principles of fire and combustion.
Prerequisites:	Basic Fire Science recommended or a background in science.
Presentation:	Self Study. Candidates will have access to a tutor by telephone
Duration:	40 hours - Self Study
Location:	General Physics is offered in a classroom format at the JIBC New Westminster Campus two or three times per year, depending on registration demand. Classes are limited to 36 students and are offered over a six week period, one evening a week for two and a half hours. If there is sufficient demand General Physics can be offered in other locations around the province.

Course Content

1. Heat.
2. Motion electricity.
3. Radioactivity.
4. Others.

Includes practical exercises and application of SI (metric) measurements and calculations.

FIRE SAFETY AT WORK

Who Should Attend:	This course is intended for employees and supervisors with job responsibilities in fire safety, and anyone with an interest in fire prevention and response.
Prerequisites:	None
Presentation:	This course was developed in conjunction with the Open Learning Agency and is on a self study basis. Candidates have access to a tutor by telephone. Candidates will be required to submit four (4) written projects and pass an exam.
Duration:	120 hours - Self Study
Location:	Fire Safety At Work is offered in a classroom format at the JIBC New Westminster Campus two or three times per year, depending on registration demand. Classes are limited to 36 students and are offered over a five week period, one evening a week for two and a half hours. If there is sufficient demand Fire Safety At Work can be offered in other locations around the province.

Course Content

1. Nature of fire.
2. Common fuels.
3. Ignition sources.
4. Hazards of building types.
5. Fire prevention.
6. Fire drills.
7. Portable extinguishers.
8. Preparing a fire safety plan.
9. Conducting a fire inspection.
10. Training employees in fire safety.
11. Leading fire drills.

BASIC EXTINGUISHER TRAINING

Who Should Attend:	Individuals that are interested in the knowledge and skills in operating fire extinguishers on small fires, at home or in the work place. This course has invaluable information for employees of service stations, school districts, hospitals, hospitality and transportation industries, long term care facilities, etc.
Prerequisites:	None
Presentation:	A mix of classroom lecture and a “live fire” practical
Duration:	4 hours
Class Size:	Min. 12/Max. 16
Location:	Fire and Safety Training Centre, Maple Ridge Campus
Certification:	Certificate of Attendance (on completion of practical exercise)

Course Content

This course will explain Fire Behaviour, 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.

AUTO EXTRICATION - LEVEL I

Who Should Attend:	Members of the public, fire service or any organization involved in rescue from automobiles.
Prerequisites:	None
Presentation:	This course is 20% theory and 80% practical hands-on exercises involving the use of auto extrication tools.
Duration:	One day
Class Size:	12 (maximum)
Location:	Fire and Safety Training Centre, Maple Ridge
Certification:	Certificate of Achievement

Course Content

1. Accident scene management.
2. Vehicle extrication tools.
3. Safety hazards associated with motor vehicle accidents.
4. Hands-on experience performing various extrication techniques.
5. Basic extrication techniques.

AUTO EXTRICATION - LEVEL II

Who Should Attend:	Members of the public, fire service or any organization involved in rescue from automobiles.
Prerequisites:	Auto Extraction - Level I
Presentation:	This course is about 25% theory and 75% practical hands-on exercises involving the use of auto extrication tools.
Duration:	Two days
Class Size:	12 (minimum)
Location:	Fire and Safety Training Centre Maple Ridge
Certification:	Certificate of Achievement

Course Content

1. Review of vehicle hazards.
2. Advanced scene management.
3. Introduction to the Incident Command System.
4. Hands-on application of various extrication techniques.
5. Scenario-based training.

HAZARDOUS MATERIALS AWARENESS

Who Should Attend:	Those whose duties include response to incidents involving hazardous materials, such as employees of process industries, members of fire departments and those involved in transportation and handling of hazardous materials.
Prerequisites:	None
Presentation:	A hands on approach is favoured, with as much practical work as possible. Responses to simulated incidents are an integral part of the course.
Duration:	Two days (0830-1600 daily)
Class Size:	12 (minimum)
Location:	Fire and Safety Training Centre, Maple Ridge
Certification:	Certificate of Achievement

Course Content

1. Identification of hazardous materials and risks associated with them.
2. Identification of potential outcomes associated with a hazardous materials incident.
3. Recognition of clues that indicate presence of a hazardous material.
4. Identification of hazardous materials and determination of primary hazards and response information.
5. The role and responsibilities of the first responder at a scene.
6. Recognition of the need for additional resources and the need to make appropriate initial reports.
7. Scene management.
8. Identification of basic decontamination procedures.

HAZARDOUS MATERIALS OPERATIONS

Who Should Attend:	Those whose duties include response to incidents involving hazardous materials, such as employees of process industries, members of fire departments and those involved in the transportation and handling of hazardous materials.
Prerequisites:	Successful completion of Awareness Level, from an accredited training group. Students should show documentary evidence of a minimum of 8 hours training on "Awareness."
Presentation:	A 'hands-on' approach is favoured, with as much practical work as possible. Responses to simulated incidents are an integral part of the courses.
Duration:	35 hours (including self-study)
Class Size:	Minimum 8, maximum 12
Location:	Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

Course Content

This is an accredited program through the International Fire Service Congress in conformance with NFPA 472.

This course will provide response personnel with the basic knowledge and skills to perform tasks required to control the incident, within the limitations of equipment and resources.

Prerequisites: Successful completion of Awareness Level, from an accredited training group. Students should show documentary evidence of a minimum of 8 hours training on 'Awareness.'

HAZARDOUS MATERIALS TECHNICIAN

Who Should Attend:	Those whose duties include response to incidents involving hazardous materials, such as employees of process industries, members of fire departments and those involved in the transportation and handling of hazardous materials.
Prerequisites:	Successful completion of Operations Level.
Presentation:	In all courses, a 'hands-on' approach is favoured, with as much practical work as possible. Responses to simulated incidents are an integral part of the courses.
Duration:	35 hours (including self-study) - day 3 will end late to facilitate an evening exercise
Class Size:	Minimum 8, maximum 12
Location:	Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

This program is in conformance with NFPA 472.

Course Content

The primary goal of this training is to prevent hazardous materials technicians from being injured or allowing others and the environment to be injured. Secondary goals aim at identifying specific guidelines for site operations based on safety, and increasing your appreciation for the dangers posed by exposure to hazardous materials. This "Technician" level course is designed to train you to safely respond offensively to hazardous materials incidents - not as Haz-Mat experts, but rather to protect exposures from harm like people, the environment, property and equipment by properly approaching the point of the release in order to plug, patch or otherwise stop the release.

To do this we will need to look at such things as conducting hazard and risk assessment at each incident site; using monitoring instruments and detection techniques to characterize the site hazards; selecting and using the proper protective clothing and equipment necessary for the site operations; conducting control and containment operations to limit/prevent harm to life and the environment; conducting decontamination of protective clothing and equipment; other operations and procedures used by the Hazardous Materials Technicians that are more sophisticated than those used by personnel responding at the Fire Responder Operations level.

DRIVING WITH FINESSE

Who Should Attend:	Members of the public, fire service or any organization involved in the operation of vehicles.
Prerequisites:	Valid driver's license
Presentation:	Practical hands-on driving experience using a mini-van.
Duration:	One day
Class Size:	5
Location:	Designated routes throughout the province

Course Content

Driving with Finesse is a one-day 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 the daily commute to the office or a short trip to the supermarket, Driving with Finesse will make a difference to your driving behaviour.

The Driving with Finesse course will facilitate the development of your vehicle handling and perceptual skills and build your confidence with driving in traffic under normal and stressful conditions. Learn all this through actual hands-on experience.

The course is limited to five participants. You and four other drivers will be on the road with an instructor and the g-analyst computer during the entire program.

The format of the Driving with Finesse course allows the instructor to personalize and address individual participant requirements. The attention given by the instructor to specific participant needs and the diversity of each participant's driving skills and experience makes each Driving with Finesse course unique.

Students are encouraged to discuss their personal driving experiences, both good and bad, Sharing of information through group participation can formulate new ideas that can enhance or change driver attitudes and behaviour.

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

INDUSTRIAL FIRE FIGHTING

Who Should Attend:	Those whose duties include response to incidents involving fire, especially employees of pulp mills, refineries, saw mills, gas plants and those involved in the handling of hydrocarbon fuels.
Presentation:	A hands-on approach is favoured, with as much practical work as possible. Responses to simulated incidents are an integral part of the courses.
Duration:	30 hours
Class Size:	Minimum 8, maximum 12
Location:	Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

Course Content

1. Industrial Fire Theory
 - causes and types of fires
 - techniques of fire fighting
2. Fire Safety and Prevention
 - recognizing fire hazards and hazardous materials
 - classifying fire areas
 - evaluating and implementing fire prevention measures
3. Protective Gear and Rescue Techniques
 - identifying and donning protective clothing and equipment
 - using and maintaining various types of breathing apparatus
 - planning and implementing a search and rescue operation
 - implementing the correct method of venting a fire
 - identifying dangers of incorrect venting
4. Fire Extinguisher Equipment and Agents
 - using and maintaining various portable and fixed fire fighting systems (agents include dry chemical, water, foam and CO₂)
5. On-Site Control Measures in Simulated Situation (interior and exterior fire fighting)
implementing principles of:
 - assessing fire situation
 - donning correct protective gear
 - demonstrating correct fire fighting techniques
 - coordinated response
6. On-Site Industrial Fire Fighting Plan
 - applying course content in planning on-site application of principles to participants' workplace

RECRUIT FIRE FIGHTER PROGRAM

The Recruit Course will be offered when there is a sufficient demand from the Fire Service for trained recruits.

- See “Career Section” of the Sun and Province papers
- When the selection process for a course is initiated, a package will be available through the Central Registry of the Justice Institute explaining the steps for qualification.

Applicants must meet all required qualifications to be considered for the Fire Fighter Recruit Course:

Qualifications

1. Canadian Citizenship or Landed Immigrant Status (include a copy of birth certificate or other proof of entitlement to work in Canada).
2. Proven High School Graduation or equivalent.
3. Valid BC Class 5 driver's license without restrictions and a good driving record. More than six points in the last three years is considered excessive (include copy of driving record - available from the Motor Vehicle License Office).
4. Physically fit and able to complete a rigorous physical performance assessment.
5. Ability to communicate effectively, written and verbally.
6. Medical - pass a medical exam which includes the following vision standard:
Vision 20/30 uncorrected and unaided in each eye and acceptable colour vision without aids as determined by Ishihara screening and additional colour visions tests as required such as the Fahrnsworth D-15 (saturated and unsaturated), Dvorine PIC, Dvorine NOM, Fahrnsworth Nunsell Hue Test, and the Lantern test.

Other Preferred Qualifications

1. Valid BC Class 3 (Heavy Truck) driver's license (provide a copy).
2. Air Brake Endorsement (provide a copy).
3. Current Industrial First Aid Certificate or First Responder Level III License (provide copy).
4. Ability to swim.
5. Life-saving Certificate (provide a copy).
6. Building construction training or experience, mechanical training or experience or heavy equipment operation training or experience (provide copies of certificates or diplomas).
7. Post secondary education or training (provide transcripts or records of marks)
8. Completion of other Fire Service related courses or programs (provide copies of certificates).
9. Non-smoker.
10. Fire related work experience.
11. Fluency in a second language or sign language.

APPLICATION PROCEDURE

Step 1: Entry Level Fire Fighter Written Exam

Applicants 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
- ability to get along with others

Step 2: Medical Exam

The Academy is required to ensure all recruits pass a medical exam to the NFPA Standard 1582 (Chapter 3).

Fire fighting and emergency response are very difficult jobs. People in these jobs 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 pre-placement and baseline 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 Academy is required to ensure that a physical performance assessment to the NFPA Recommended Practice 1583 for Physical Fitness is successfully completed by all recruits. FireFit Ltd. conducts the Physical Performance Assessment for the Academy.

Step 4: Interview

After all this information is received at the Justice Institute Registration Office, a panel of Fire Officers will review the resumes and determine a short list for interviews. Only those candidates required for an interview will be contacted.

The Fire Officers' selection panel will review all the information on each applicant. The list of people to be interviewed will be determined from those applicants who do well on all components of the screening process.

The selection panel will interview the short listed applicants and notify successful candidates. At this stage, there will be a requirement for references and a criminal records check.

An eligibility list will be developed. The list will be in effect for a year and you could be invited to attend future recruit courses if there is a demand. The medical report is valid for one year and the physical performance assessment results are valid for six (6) months. The candidates selected from the interview process will be required to successfully complete the Academy Fire Fighter Recruit Program before being confirmed as a probationary fire fighter.

CONTENT

Upon completion of written and physical tests, recruits will be selected for the 12 week program.

The purpose of this course is to train individuals to be hired by Fire Departments as a fire fighter. As part of that preparation, students will be trained on all aspects of the NFPA 1001 Level I and II. Students will also be trained to First Responder Level III. The course will meet the Provincial Fire Fighter Training Standard upon adoption by the Fire Commissioner.

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

- Fire Department Organization
- 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)
- Hazardous Materials Awareness Level
- Hazardous Materials Operations Level

DIPLOMA IN FIRE SERVICES PROGRAM

Purpose of the Program

This program is designed to enable current and aspiring fire services personnel to obtain a recognized Diploma in Fire Services in British Columbia. The program is being offered through the collaboration of the Justice Institute and the Open College component of the Open Learning Agency.

While all courses are available by distance education, many courses can also be taken at recognized 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 enroll in this program are career and volunteer municipal 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.

Please note that this program is not intended as a prerequisite to, or practical training for, employment in the fire services.

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 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 or who have completed Grade 12. 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.

OLA Access advisors are available at **1-800-663-9711** or **660-2000**. For information on Justice Institute courses see *Registration Information*.

Courses

These courses, or equivalents obtained elsewhere, are required to complete the diploma program. If you plan to enroll in courses other than those listed below, check with an OLA advisor to ensure equivalency.

Suggested prerequisites are identified in [].

(JI) = Justice Institute

(OC) = Open College

(OU) = Open University

Fire Services Courses

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.

FIRE 200 (JI): Fire Science 3 credits [CHEM 110 and PHYS 110]

FIRE 201 (JI): Fire Service Organization 3 credits

FIRE 211 (JI): Legal Aspects of Fire Protection 3 credits

FIRE 212 (JI): Life and Fire Safety 3 credits

ADMIN 231 (OU): Introduction to Financial Accounting - 3 credits

ENGL 301 (OU): Practical Writing - 3 credits [ENGL 100 & 101-3 credits]

CMPT 110 (OU): Computer Concept - 3 or 4 credits

CMPT 211 (OU): Forecasting and Control for Management - 3 credits

CMPT 214 (OU): Computer Tools for Management - 3 credits

MATH 102 (OU): Introduction to Probability and Statistics - 3 credits
[Algebra 11 or 12] or An Introductory Statistics course

MATH 101 (OU): Calculus for Biology and Social Sciences - 3 credits
[Algebra 12]

ECON 200 (OU): Introduction to Microeconomics - 3 credits Introductory
Physics course; alternatives must be university transferable

CHEM 110 (OU): Introduction to Chemistry I - 3 credits [Algebra 12 and
Chemistry 11] or an introductory Chemistry course;
alternatives must be university transferable

SUBTOTAL: 27 CREDITS

Other General Education Requirements

Two courses of 1st year English (literature/composition): 6 credits e.g.,

ENGL 100 (OU), ENGL 101 (OU), ENGL 102 (OU), and ENGL 103 (OU) [English 12].

Two courses of Social Sciences (at least 3 credits at the 200-level): 6 credits e.g.,

Anthropology, Economics, Geography (not Physical Geography), Criminology, Political
Science, Psychology, Sociology, Social Sciences.

One course of Humanities (at 200 level) other than English: 3 credits e.g.,

History, HUMN 200 (OU), Philosophy, Religious Studies [ENGL 100 or 102].

SUBTOTAL: 15 Credits

Electives

Two unspecified courses (6 credits) 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.

Courses from the following areas are acceptable: Education, Business and Administrative Studies, Criminology, Management, Sociology, Psychology, Mathematics, Science.

SUBTOTAL: 6 Credits

T O T A L: 60 Credits

Please note that as this is a new program, there may be adjustments to program requirements.

COURSE DESCRIPTIONS

Fire 200 Fire Science

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.

Fire 201 Fire Service Organization

This course studies the relation between federal, provincial and local governments in relation to fire suppression and fire prevention organizations. 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.

Fire 211 Legal Aspects of Fire Protection

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.

Fire 212 Life and Fire Safety

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.

TO REGISTER

1. Contact the Academy at 528-5657 and speak to the Program Director or a coordinator.
2. Contact an Open Learning Agency Advisor at 1-800-663-9711 or 660-2200.

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COURSES OFFERED TO THE FIRE SERVICE

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FIRE FIGHTER		
COURSE MAP		
Basic	Intermediate	Advanced
Auto Extrication Level I & II	Fire Prevention Inspector (1-12)	Hazmat Technician
Hazmat Awareness	Hazmat Operations	Live Fire Training Level II
Emergency Vehicle Driver Training	Pumps & Pumping 1002 NFPA	Training Officer
Live Fire Training Level I	Shipboard Fire Fighting for Land Based Fire Fighters Module 1, 2, & 3	

EMERGENCY VEHICLE DRIVER TRAINING

Who Should Attend:	Those whose duties include operation of fire emergency vehicles and apparatus.
Prerequisites:	None
Presentation:	One hour of lecture and discussion and seven hours of hands-on driver training.
Duration:	One day
Class Size:	5
Location:	Fire and Safety Training Centre, Maple Ridge
Certification:	Certificate of Achievement

Course Content

1. Total control steering, braking and acceleration.
2. Threshold braking.
3. Total vision.
4. Vehicle balance.
5. Vehicle pivot points.
6. Vehicle idiosyncrasies.
7. Vehicle limitations.
8. Driver limitations.
9. Driver attitude.

HAZARDOUS MATERIALS OPERATIONS

Who Should Attend:	Fire service personnel
Prerequisites:	Hazardous Materials Awareness
Presentation:	Theory presentation and table top exercises.
Duration:	Three days
Class Size:	12
Location:	Fire and Safety Training Centre, Maple Ridge (other locations on request)
Certification:	Certificate of Achievement

Course Content

1. Analysis of a hazardous materials incident to determine the magnitude of the problem in terms of outcomes by completing the associated tasks.
2. Planning an initial response within the capabilities and competencies of available personnel, personal protective equipment, and control equipment by completing the associated tasks.
3. Implementation of the planned response to favourably change the outcomes consistent with the local emergency response plan and the organization's standard operating procedures by completing the associated tasks.
4. Evaluation of the progress of the actions taken to ensure that the response objectives are being met safely, effectively, and efficiently by completing the associated tasks.

HAZARDOUS MATERIALS TECHNICIAN

Who Should Attend:	Those whose duties include response to incidents involving hazardous materials, such as employees of process industries, members of fire departments and those involved in the transportation and handling of hazardous materials.
Prerequisites:	Successful completion of Operations Level.
Presentation:	In all courses, a 'hands-on' approach is favoured, with as much practical work as possible. Responses to simulated incidents are an integral part of the courses.
Duration:	35 hours (including self-study) - day 3 will end late to facilitate an evening exercise
Class Size:	Minimum 8, maximum 12
Location:	Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

This program is in conformance with NFPA 472.

Course Content

The primary goal of this training is to prevent hazardous materials technicians from being injured or allowing others and the environment to be injured. Secondary goals aim at identifying specific guidelines for site operations based on safety, and increasing your appreciation for the dangers posed by exposure to hazardous materials. This "Technician" level course is designed to train you to safely respond offensively to hazardous materials incidents - not as Haz-Mat experts, but rather to protect exposures from harm like people, the environment, property and equipment by properly approaching the point of the release in order to plug, patch or otherwise stop the release.

To do this we will need to look at such things as conducting hazard and risk assessment at each incident site; using monitoring instruments and detection techniques to characterize the site hazards; selecting and using the proper protective clothing and equipment necessary for the site operations; conducting control and containment operations to limit/prevent harm to life and the environment; conducting decontamination of protective clothing and equipment; other operations and procedures used by the Hazardous Materials Technicians that are more sophisticated than those used by personnel responding at the Fire Responder Operations level.

LIVE FIRE TRAINING LEVEL I

Who Should Attend:	Fire service personnel
Presentation:	Theory, practical skills and techniques
Duration:	Two days
Class Size:	12 (minimum)
Location:	Fire and Safety Training Centre, Maple Ridge Nanaimo Training Centre, Nanaimo
Certification:	Certificate of Achievement

Course Content

Extinguish and control the following live fires:

1. Structural.
2. Vehicle.
3. Class "B"(extinguishers).
4. Ventilation.

LIVE FIRE TRAINING LEVEL II

Who Should Attend:	Fire service personnel
Prerequisites:	Level I or a letter from the department Chief verifying the experience of the applicant.
Presentation:	Advanced theory, practical skills and techniques
Duration:	Two days
Class Size:	12 (minimum)
Location:	Fire and Safety Training Centre, Maple Ridge Nanaimo Training Centre, Nanaimo
Certification:	Certificate of Achievement

Course Content

Extinguish and control the following live fires:

1. An exterior combustible liquids fire of at least 100 square feet (9m²), using a foam fire stream.
2. A fire in an elevated location within a structure (such as an upper level floor or attic).
3. A hidden fire within a structure (such as within walls or crawl spaces).
4. A fire involving energized electrical components.
5. A fire involving a flammable gas cylinder (exterior).
6. A fire in a below grade area or other location requiring initial attack from above.

SHIPBOARD FIRE FIGHTING FOR LAND-BASED FIRE FIGHTERS

This course was developed in conformance with NFPA 1405, and in response to the needs of land-based fire fighters. The course development committee is comprised of members of the Fire and Safety Training Centre, Vancouver Port Corporation, and Vancouver, District of North Vancouver, City of North Vancouver, Burnaby, Surrey and Port Moody fire departments.

Who Should Attend: Members of fire departments whose duties include response to fires aboard marine vessels, whether on the waterfront or at anchor.

Prerequisites: Participants must be fire department members, with recommendation from their Chief or superior officer.

Presentation: A hands-on approach is favored, with as much practical work as possible. Responses to simulated incidents are an integral part of the course. Tours of vessels in port, and shipboard exercises are an important part of this course.

Duration: Modules 1 & 2 4 days (0830 - 1600 daily)
Module 3 2 days (0830 - 1600 daily)

Class Size: 8 -12

Location: Modules 1,2 Days 1, 3, 4 - Fire and Safety Training Centre, Maple Ridge
Day 2 - Vancouver Harbour

Module 3 Days 1,2 - Fire and Safety Training Centre
Maple Ridge

Course Content

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.

1. Module 1 Marine environment organization and terminology.
2. Module 2 Strategies and tactics (including case studies).
3. Module 3 Securing the incident vessel, stability, unified response.

PUMP DRIVER\OPERATOR INTRO

Who Should Attend:	Pumper Driver Operators
Prerequisites:	Provincial Licensing for the vehicle to be operated
Presentation:	Classroom and hands on
Duration:	4 days
Class Size:	12
Location:	TBA
Certification:	Certificate of Achievement

The Pumper Driver/Operator Intro program is designed to educate and evaluate the new driver operator of apparatus equipped with fire pumps.

Course Content

1. Pump theory.
2. Pump operation.
3. Fire Ground Hydraulics.
4. Vehicle operations and maneuvering skills.
5. Vehicle maintenance.

INTRODUCTION TO INCIDENT COMMAND

Who Should Attend:	The objective of this two day program is to introduce the concept of Incident Command to a Fire Department or to a group of Fire Departments that have mutual aid agreements.
Prerequisites:	None
Presentation:	Lecture, table top exercises
Duration:	2 days
Class Size:	12 - 15
Cost:	To be determined in consultation with Department
Location:	Your community

Course Content

- Elements of Incident Command.
- Assist departments in identifying the value of incident command at a fire scene
- Assist departments in developing an Incident Command procedure that fits their specific geography and resources.
- Provide opportunity for hands-on practice using a mock town.

STRATEGIES AND TACTICS

Who Should Attend:	Experienced fire fighters who are responsible for making strategic or tactical decisions.
Prerequisites:	Experienced fire fighter/officers
Presentation:	Field exercises, classroom and table top
Duration:	Two days
Class Size:	20
Location:	JIBC, FSTC, or on-site

Course Content

This course provides concepts and considerations of fire attack based on strategic and tactical considerations. Topics include:

1. Fire behaviour factors and their effects on fire suppression operations involving fire load, fire extension (through heat transfer), flashover, backdraft, rollover and thermal stratification.
2. The effects of ventilation on fire and smoke.
3. Types of ventilation:
 - natural, mechanical, hydraulic
 - negative, positive, vertical, horizontal.
4. Steps in scene management.
5. Use of size up and initial reporting, and the function of the Incident Commander and the use of an accountability system in a fire ground simulation.
6. Identification and combat of residential and commercial fires using a scene management model in table top and video scenarios.

DISTANCE EDUCATION

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 according to schedules arranged with their own department support personnel including fire department Liaison Officers (usually the Chief) and Academy tutors who are an integral part of the program.

Several courses are available for certification. The courses are based on the professional qualifications established by the NFPA and amended as necessary and approved by the Fire Commissioner to reflect the needs of the B.C. Fire Service. Successful completion of a full course leads to certification at that level.

Courses and Blocks

Two courses for which Provincial certification is available for all Fire Service personnel.

- Training Officer
- Fire Prevention Inspector

Eligibility

To be admitted to Training Officer and Fire Prevention Inspector programs a candidate must be a member of the fire service and have a responsibility for training and for fire prevention activities. Candidates must meet the following criteria:

- member of a volunteer, full-time or industrial fire department or a member of the Office of the Fire Commissioner staff or Academy
- must submit a completed application for admission bearing the signature of the department head
- must have application approved by the Director
- Special requests for admission must be addressed to the Director.

Training Officer and Fire Prevention Inspector

Each course comprises subject Blocks, as listed in the following course descriptions. Each Block ends with an exam. Most Blocks may be taken in any order. The exception is Fire Prevention Inspector; Blocks in this course must be taken in sequence. 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 Academy.

Blocks are subdivided into Units composed of individual booklets, from two to six per Block.

Support Personnel

Tutors

In each Block the student's progress is guided and evaluated by a tutor. The tutor evaluates Block Projects and informs the Academy 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) supports and helps plan studies and activities in the course and supervises the writing of tests in the Fire Department.

Course Material

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

- Study guide:** to assist the student in the use of all the other components and offering tips on how to study Distance Education materials.
- 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 for each block.
- Support materials:** for Liaison Officer and tutors.
- Block Exam:** to be administered by the Liaison Officer and marked by the Academy.

The Academy 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.

Students can complete material at their own pace, but will be given a maximum of one year to complete a Block. No extensions will be granted. Any student who does not complete one Block within one year may re-apply after a three-month waiting period and submit the block tuition. 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 Academy to generate an exam for the student and forward the next Block in the program.

TRAINING OFFICER

TO-1 TRAINING OFFICER

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 includes the following:

- Developing job skill profiles
- Developing performance objectives
- Determining performance discrepancies
- Developing training plans and training aids
- Planning and conducting a training session
- Evaluating, training progress and program effectiveness

Self-study hours: 100

TO-2 TRAINING OFFICER WORKSHOP

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. (Certification upon completion.)

Location:	Fire and Safety Training Centre
Prerequisite:	TO-1
Duration:	4 Days
Certification:	Certificate of Achievement

FIRE PREVENTION INSPECTOR

FPI - 1 Introduction to Fire Prevention

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.

Suggested Prerequisite: CO-1 Fire Service Organization

Self study hours: 60

FPI - 2 Basic Fire Science*

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.

FPI - 3 Blueprint Reading for the Fire Service

This Block familiarizes 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

FPI - 4 Elements of Life and Fire Safety

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

FPI - 5 Fire Protection Systems and Extinguishers

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

FPI - 6 Signaling and Detection Systems

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

FPI - 7 Water Supply Systems

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

FPI - 8 Building Systems and Hazards

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

FPI - 9 Hazardous Materials

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 cooperating to ensure safe handling, use and storage of these materials.

Self study hours: 60

FPI - 10 Flammable & Combustible Liquids and Compressed & Liquefied Gases

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

FPI - 11 Fire Prevention Practices

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; judicial aspects of fire prevention activities such as evidence and testimony.

Self study hours: 60

FPI - 12 Fire Prevention Workshop

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

Certification upon completion.

Location: Justice Institute of British Columbia campus

Prerequisite: FPI -1 - FPI - 11

Duration: 4 Days

SITUATIONAL LEADERSHIP

Who Should Attend:	Those responsible for leading and motivating a crew or someone about to move into a position of supervising others.
Prerequisites:	None
Presentation:	Classroom lecture and table top exercises
Duration:	2 days
Class Size:	20
Location:	Justice Institute or can be presented off-site

Course Content

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 your organization by teaching them how to diagnose and decide which leadership style is the most effective for the situation at hand.

LEADERSHIP & TEAMWORK

Who Should Attend:	Senior managers, fire chiefs or people responsible for achieving results through teamwork.
Prerequisites:	Situational Leadership
Presentation:	Lecture and workshops
Duration:	4 days
Class Size:	20
Location:	Justice Institute of BC, or can be presented off-site

Course Content

The theory input for this seminar consists of knowledge about alternative leadership styles and the dynamics of work groups. The participants will engage in a series of structured tasks which provide an opportunity to experiment with and validate the current scientific concepts about leaders and their impact upon the productivity and attitudes of work groups.

The seminar is designed to enhance the effectiveness of anyone who must work cooperatively with others in any level or function of an organization. Participants will:

- learn a valid leadership model
- learn and practice team problem solving and decision making
- learn and practice team effectiveness, critique and evaluation
- learn about one's own leadership style and its impact on subordinates
- determine what is the most effective leadership style in a given situation
- develop personal goals for changing one's style if it is inappropriate
- gain insight and increase one's interpersonal competence

EXECUTIVE DEVELOPMENT

Who Should Attend:	Fire Service personnel
Prerequisites:	Participants should be placed in or preparing for a Fire Service Officer position
Presentation:	The program is designed to cover both operational and administrative aspects of Chief Officer duties. The program 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 more depth. An open forum with two municipal administrators is scheduled at the end of the program. The intent of the program content is that, in this way, all the learning can be related to real-life needs.
Duration:	2 weeks
Class Size:	12 (minimum)
Location:	Justice Institute of British Columbia campus

Course Content

The topics are balanced between line and staff functions that will be encountered at a senior officer level:

Operations Management	Personnel Management	Executive Administration
<ul style="list-style-type: none">• Modern Fire Apparatus Specifications• Policy Formation• Passport Accountability• Ethics/Risk Management• Municipal Fire Protection By-Laws• Public Policy Decision-Making	<ul style="list-style-type: none">• Performance Planning and Review• Employee Screening and Selection• Employment Equity• Effective Union/Management Relations• Conflict Resolution• Critical Incident Stress	<ul style="list-style-type: none">• Conducting Effective Meetings• Dealing with the Media• Executive Problem-Solving• Successful Presentations• Strategic Planning

COURSES OFFERED SPECIFIC TO THE VOLUNTEER FIRE SERVICE

- Volunteer Fire Fighter Certification Program
- Field Training Program
- Basic Orientation for new Departments

VOLUNTEER FIRE FIGHTER		
<i>COURSE MAP</i>		
Basic	Intermediate	Advanced
Volunteer Certification Program Level I	Volunteer Certification Program Level I	Fire Prevention Inspection FPI 1-12
Field Training Program	Auto Extrication Level II	Hazmat Operations
Emergency Vehicle Driver Training	Live Fire Training Level I	Live Fire Training Level II
Auto Extrication Level I	NFPA 1002	Hazmat Technician
Hazmat Awareness	Shipboard Fire Fighting for Land Based Fire Fighters Module 1, 2, & 3	

VOLUNTEER FIRE OFFICER		
<i>COURSE MAP</i>		
Basic	Intermediate	Advanced
Situational Leadership	Leadership & Teamwork	Executive Development
TO1	Introduction to Incident Command	Diploma Program
TO2		
Fire Prevention Inspector		
Strategies & Tactics		

VOLUNTEER FIRE FIGHTER CERTIFICATION PROGRAM

Volunteer Fire Fighter Certification is formal recognition by the province that a fire fighter has attained a basic proficiency in the subjects identified in the British Columbia Volunteer Fire Fighter Training Standards. The Training Standards define two successive levels at which a fire fighter can become certified - Level I and Level II. This reflects the fact that not all departments require the same equipment. For example, larger ground ladders are covered only in Level II. Depending on the equipment requirements for that department, fire fighters in departments that do not use these ladders can still attain certification in Ground Ladders at Level I. Other subjects, such as Self-Contained Breathing Apparatus (SCBA), are covered completely in Level I.

CERTIFICATION PROCESS

Accepted applicants receive a Certificate of Enrolment identifying required subjects for either Level I or Level II and a list of subjects currently available in which to be evaluated. All identified subjects require a written test and most subjects also require demonstration of practical skills. Upon successful completion of a subject, a subject-identification sticker is sent to the individual to be affixed to the enrolment certificate in the corresponding subject area.

Certification for Level I can only be attained by successfully completing all 21 subjects identified in the Volunteer Fire Fighter Training Standards as Level I. Level II requires those objectives identified as Level II.

Prerequisites: Valid driver's license conforming to the candidate's fire department policies and provincial legislation.

Subject reference materials as follows:

- Edukits developed by the Academy
- International Fire Service Training Association Manuals (IFSTA)
- Essentials of Fire Fighting (Third Edition)
- Fire Service Practices for Volunteer and Small Community Fire Departments (Sixth Edition)

EDUKITS

Edukits are self-contained training packages developed by the Academy. Each Edukit consists of:

- | | |
|---|--|
| <input type="checkbox"/> Instructional manual | <input type="checkbox"/> Quiz sheet (in most packages) |
| <input type="checkbox"/> Accompanying video | <input type="checkbox"/> Skills checklist |
| <input type="checkbox"/> Guidelines for an instructor | <input type="checkbox"/> Masters for overheads |

Each Edukit focuses on a particular subject or skill. The purpose of the Edukits is to enable fire fighters to upgrade their knowledge and skills and to practice a standardized and uniform set of fire fighting procedures.

SUBJECTS

Edukits cover the following subjects:

Apparatus Familiarization explains the functions and basic operation of pumpers, tankers, aerial apparatus and rescue apparatus and illustrates safe driving practices.

Communications explains the fire fighter's role and responsibilities in relation to the dispatch system. The use of plain language, equipment and radio procedures are covered.

Dangerous Goods will educate the fire fighter to the first responder awareness level as specified in NFPA 472 Section 2.2. The Edukit explains dangerous goods identification, placarding and labeling and fire department response within the Incident Command System.

Electrical Safety for Fire Fighters covers the basic units of electricity and its effects on the human body. It also describes the major components of an electrical system and related hazards.

Extinguishers and Extinguishing Agents covers the basic chemistry of fire, common types of extinguishing agents used in portable extinguishers, and the classes of fire on which they would be used. Also covered is operation of each type of extinguisher and its general care and maintenance.

Fire Behaviour covers theory of combustion, the combustion process, phases of fire, combustion products, fire spread and classes of fire.

Fire Cause Determination provides a fire fighter level of awareness by teaching fire fighters how to recognize and observe evidence and how to preserve it for investigators. It teaches fire fighters to recognize relevant indicators that may assist investigators in determining the cause of fire. Guidelines for court appearances are provided.

Fire Hose describes basic hoses and hose handling procedures.

Fire Service Orientation and Safety briefly describes the origin of the fire service, its organization and its legal responsibilities. It also identifies the most common causes of injury and describes basic safety procedures.

Fire Streams describes the properties of fire streams, basic terminology, water and foam and methods of handling various sized hoselines.

Fire Suppression will familiarize the fire fighter with various techniques and operational aspects associated with confining, controlling and extinguishing structural, flammable liquid, flammable gas and vehicle fires. It will identify the hazards associated with the various types of fires and how to recognize and control such hazards.

Forcible Entry explains the basic tools required and methods of entering a structure in an emergency situation.

Gas Safety will explain to the fire fighter the various hazards associated with Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG) and Liquefied Petroleum Gas (LPG). It will familiarize the fire fighter with the various techniques and procedures for dealing with related gas emergencies.

Ground Ladders (Second Edition) illustrates the techniques involved in the basic lifts, carries and raises of ground ladders.

Installed Fire Protection Systems explains the purpose of alarm systems, suppression systems and specialized extinguishing systems and the fire department's role in responding to buildings equipped with installed fire protection systems.

Pumps and Pumping describes the purpose of a pump as well as the general principles of pump operation. Also covered are troubleshooting procedures, priming operations and friction loss calculations.

Rescue explains basic rescue techniques including the rescue model, building search, auto extrication and other essentials.

Ropes and Knots describes the basic knots used in the fire service today and their application. Care and maintenance of the various types of ropes are discussed.

Salvage and Overhaul explains that salvage is the process of applying techniques to minimize damage to a building and its contents from smoke, fire and water. It will familiarize the fire fighter with salvage equipment, the proper deployment of that equipment and the proper handling and maintenance of salvage equipment. It also explains that overhaul is the process of placing the property in a safe place.

Self-Contained Breathing Apparatus - SCBA (Second Edition) covers types, various models, operation, safety and emergency procedures for self-contained breathing apparatus used in the fire service. It also includes testing and maintenance of equipment.

Small Tools and Equipment shows many tools, both manual and power operated, used for such tasks as forcible entry, ventilation, salvage and overhaul, rescue and vehicle extrication. This Edukit describes the four main categories of small tools and how to use them: prying tools, cutting tools, lifting and pulling tools and striking tools. It also demonstrates care of tools.

Ventilation defines ventilation, explains the reasons for ventilating and illustrates the procedures, decisions, precautions and hazards involved in ventilating a fire in a contained structure.

Water Supplies explains the sources of water supply and distribution systems. It discusses hydrant types and maintenance procedures.

The following is a list of core subjects for volunteer fire fighter certification:

- Fire Service Orientation and Safety
- Fire Behaviour
- Extinguishers and Extinguishing Agents
- Small Tools and Equipment
- Apparatus Familiarization
- Ropes and Knots
- Self-contained Breathing Apparatus
- Ground Ladders
- Hose
- Water Supply
- Fire Streams
- Salvage and Overhaul
- Fire Cause Determination
- Forcible Entry
- Ventilation
- Communications
- Installed Fire Protection Systems
- First Aid (the Academy does not provide a First Aid Edukit but accepts Safety Oriented First Aid, Industrial First Aid and First Responder Licensing, other qualifications are evaluated individually.
- Rescue
- Fire Suppression
- Pumps and Pumping
- Dangerous Goods

Registration-Volunteer Certification Program

For admission into the program, the student should obtain an Application for Admission from the Fire Chief and submit a completed copy to the Academy.

Eligibility - Volunteer Certification

To be admitted to the Program, the fire fighter must be a member of a fire department recognized by the Office of the Fire Commissioner.

The candidate must also possess a valid driver's license conforming to fire department policies and the policies of the Motor Vehicle Act.

Admission into the Program is through the fire department. All admission forms must be signed by the Fire Chief and then by the Director.

Provincial Field Training Program

The Field Training Program is the result of recommendations from the Fire Safety Advisory Council and has been endorsed by the Office of the Fire Commissioner.

The program is intended to be the first step in delivering standardized training in the field on a continual basis. The Provincial Volunteer Fire Fighter Training Standard will be the minimum standard met by this program.

Strong support from the fire service has provided for completion of Phase II of the program including the selection of 12 additional Field Trainers. This provides the fire service with a total contingency of 30 field trainers strategically located throughout various areas of the province. This provides fire departments reasonable access to the Field Training Program.

In addition to the training, Phase II provided for the development of standardized lesson plans for an additional 7 Edukit subjects. This brings the number of subjects available for practical oriented training to 18. They are as follows:

#01	Safety and Orientation	2 modules
#02	Fire Behaviour	2 modules
#03	Extinguishers	1 module
#04	Small Tools and Equipment	1 module
#06	Ropes and Knots	2 modules
#07	SCBA	2 modules
#08	Ground Ladders	2 modules
#09	Fire Hose	3 modules
#10	Water Supplies	1 module
#11	Fire Streams	3 modules
#12	Salvage and Overhaul	2 modules
#14	Forcible Entry	3 modules
#15	Ventilation	1 module
#16	Communications	1 module
#19	Rescue	2 modules
#21	Pumps and Pumping	3 modules
#24	Gas Safety	1 module
#25	Electrical Safety	1 module

Each of the Edukits have been divided into modules: a module consists of a 3-hour training session. The number of modules per Edukit varies upon content and subject complexity. For example, SCBA consists of two modules and Fire Streams consists of three modules.

The Ministry, in making funding available for implementation of this program, has identified that a partnership is required for training. Utilizing the partnership concept, there is a tuition fee of \$5.00 per person for the evening sessions, \$20.00 per person for 1-day sessions, and \$30.00 per person for the 2-day weekend sessions. This will cover approximately 50% of the program costs.

Class sizes will range from 12 - 20 students depending on the Edukit subject, safety considerations and available resources. There will be some weekend sessions that will require more than one Field Trainer per training session, arrangements for such situations will be made by the Academy.

Once a fire department is registered in the program the Academy will issue training assignments to the Field Trainers. The Field Trainers will contact their assigned fire departments and arrange training dates that are convenient to both the fire department and the Field Trainer.

In order to deliver training to all requesting fire departments on an equitable basis departments will be scheduled for training in one of the following methods.

- A) If training is to be conducted during evening sessions, then training will be scheduled for the number of evenings required to complete two Edukit subjects.

Example: Fire Behaviour consists of two modules and Fire Hose consists of three modules which will require a total of five evenings of training.

- B) If training is conducted during a weekend session, six modules of training can be delivered.

Example: Ropes and Knots consists of two modules, Pumps and Pumping consists of three modules, and Small Tools and Equipment consists of one module (a total of six modules); three modules can be delivered on Saturday and three modules can be delivered on Sunday.

Once all requesting departments have received two subjects or one weekend of training the Academy will start back at the top of the list and repeat the process.

BASIC ORIENTATION FOR NEW DEPARTMENTS

This program is designed to assist new volunteer fire departments in establishing standard fire fighting procedures and safe and effective practices.

The courses are held at the new department home base Friday evening through Sunday and focus on practicing basic fire fighting skills. Basic instruction is given on fire behaviour, pumps and pumping, controlling fire through proper ventilation, fire service rescue and protective breathing practices and proper utilization of water supplies.

Eligibility Restrictions

Designed for individual fire departments and offered only to newly formed volunteer fire departments recognized by the Office of the Fire Commissioner.

Requirements

Basic fire fighting equipment:

- ULC rated pumper (minimum 420 IGPM)
- capability to adequately supply pumper either from a water system or a portable water supply
- 2½" attack lines with at least two constant gallonage nozzles
- 1½" attack lines with at least two constant gallonage nozzles
- adequate SCBA to satisfy WCB requirements (at least four sets with four spare cylinders)
- approved personal protective equipment for 10 fire fighters
- call-out system to alert the fire department of an emergency

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COURSES OFFERED SPECIFIC TO CAREER FIRE SERVICE OFFICERS

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UPDATE

In 1992, the NFPA revised The Fire Officer Professional Qualifications 1021, 1031, and 1041 standards.

The new standard no longer includes the following components: Fire Science, Technical Math, General Physics and Industrial Fire Protection for the Fire Officer.

The new standard has also reduced the number of Fire Officer levels from six to four.

To maintain our accredited standing with the International Fire Service Accreditation Congress, the Fire Academy must modify the Fire Officer Training and Education Program to meet the new standard.

At the time of publication of the catalog, the Company Officer, Command Officer and Administration Officer, Training Officer & Fire Prevention Inspector courses of the Officer Training Program are under review by the Fire Safety Advisory Council Standards & Curriculum Committee. Information on the new program will be available when it is approved.

In addition to offering the new Fire Officer program in the Distance Education format, the Fire Academy will offer a Fire Department Leadership program in a classroom format. The classroom program will be offered on a cost recovery basis only.

CAREER FIRE SERVICE

ELIGIBILITY

To be admitted to a course in this section, a student must meet the following eligibility criteria:

- full-time, paid member of a British Columbia Municipal Fire Department or as identified by the Office of the Fire Commissioner and/or the Director
- attained First Class Fire Fighter status
- must submit a completed application for admission signed by the Fire Chief
- application must be approved by the Director

FIRE OFFICER		
<i>COURSE MAP</i>		
Basic	Intermediate	Advanced
Company Officer (1-10)	Command Officer (1-7)	Administration Officer (1-7)
Hazmat Operations		Executive Development
Strategies and Tactics	Leadership and Teamwork	
Introduction to Incident Command		
Training Officer (1-2)		
Fire Prevention Inspector (1-12)		
Situational Leadership		

FIRE OFFICER TRAINING AND EDUCATION PROGRAM

The Distance Education Program for the Volunteer Fire Service in the Province of British Columbia is a series of courses that allows volunteer 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 according to schedules arranged with their own department support personnel including fire department Liaison Officers (usually the Chief) and Academy tutors who are an integral part of the program.

Several courses are available for certification. The courses are based on the professional qualifications established by the NFPA and amended as necessary and approved by the Fire Commissioner to reflect the needs of the B.C. Fire Service. Successful completion of a full course leads to certification at that level.

Courses and Blocks

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

Eligibility

To be admitted to Fire Officer Training and Education programs, candidates must meet the following criteria:

- full-time career fire fighter
- First Class Fire Fighter
- member of the Office of the Fire Commissioner staff or Academy
- Special requests for admission must be addressed to the Director.

Training Officer and for Fire Prevention Inspector

Each course is comprised of subject Blocks, as listed in the following course descriptions. Each Block ends with an exam. Most 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 Academy. A student must be admitted to a course before registration in any Blocks.

Blocks are subdivided into Units composed of individual booklets, from two to six per Block.

Support Personnel

Tutors

In each Block the candidate's progress is guided and evaluated by a tutor. The tutor evaluates Block Projects and informs the Academy when the student is ready to write the Block exam.

Liaison Officer

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) supports and helps plan studies and activities in the course and supervises the writing of tests in the Fire Department.

Course Material

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

Study and exam tips - a bibliography is available in the library.

Course Blocks presented as a series of printed booklets, each containing objectives self tests, practical exercises and projects to be completed. There is a basic tuition for each block.

Support materials for the Liaison Officer and the tutors.

A **Block Exam** to be administered by the Liaison Officer and marked by the Academy.

The Academy 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.

Students can complete material at their own pace, but will be given a maximum of one year to complete a Block. No extensions will be granted. Any student who does not complete one Block within one year may reapply after a three-month waiting period and submit the block tuition. 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 Academy to generate an exam for the student and forward the next Block in the program.

COMPANY OFFICER

CO - 1 **Fire Service Organization**

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

Self study hours: 20

CO - 2 **Basic Fire Science**

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

CO - 3 **Fire Prevention and the Company Officer**

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, recognizing 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

CO - 4 **Company Leadership**

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

CO - 5 **Communication Skills**

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

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-
- CO - 6 Records and Reports**
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 computerized information systems.
Suggested Prerequisites: CO-5 Communication Skills
Self study hours: 40
- CO - 7 Technical Math**
This Block present 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
- CO - 8 Fire Determination**
This Block provides an overview of fire cause indicators and emphasizes the importance of preserving the scene for fire investigators in situations where the fire cause is not apparent.
Self study hours: 40
- CO - 9 Dangerous Goods (Hazardous Materials)**
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
- CO - 10 Incident Command**
Attending at a location as determined by the Academy, officers apply a model of incident command through scenario-based training. Also covered are the development and organization of drills and scenarios and a segment on Company Officer contact with the media. The Block provides an individualized training component. **Certification upon completion.**
Location: Fire and Safety Training Centre
Prerequisites: Completion of CO-1 to CO-9
Duration: 4 Days

COMMAND OFFICER

CM -1 Advanced Communication Skills

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.

Suggested Prerequisites: CO-5 Communication Skills

Self study hours: 40

CM - 2 General Physics

General Physics is an introductory course that familiarizes 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.

Suggested Prerequisites: CO-7 Technical Math

Self study hours: 40

CM - 3 Major Emergency Planning

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

CM - 4 Fire Protection Systems and Water Supply Systems

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 recognize 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: CO-3 Fire Prevention & the Company Officer CO-7 Technical Math

Self study hours: 60

CM - 5**Industrial Fire Protection and the Command Officer**

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 organizations and fire brigades. Some field work is required.

Self study hours: 60

CM - 6**Command Officer Leadership and Administration**

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

Self study hours: 80

CM - 7**Multi-Command Incident Command**

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. **(Certification upon completion.)**

Prerequisites: Completion of CM-1 to CM-6

Duration: 4 Days

ADMINISTRATION OFFICER

AO - 1 **Executive Leadership and Communication**

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

AO - 2 **The Social Environment**

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

AO - 3 **Planning**

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

AO - 4 **Financial Management**

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.

AO - 5 **Organizational Administration**

This Block addresses organizational administration as a basis for the efficient operation of a fire department. It explores current trends in organization structures and philosophies that help the Administrative Officer select and maintain the most effective organization 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

AO - 6 Administering the Human Resource

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

AO - 7 Public Relations

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

AO - 8 Risk Management for the Fire Service

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. **(Certification upon completion.)**

Location: Justice Institute of British Columbia, New Westminster

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

Duration: 3 Days

COURSES OFFERED SPECIFIC TO INDUSTRY

SECTION CONTENTS

Industrial Fire Service Programs	5-1
Industrial Fire Fighter Course Map.....	5-1
Fire Safety at Work	5-2
Hazardous Materials Awareness	5-3
Hazardous Materials Operations	5-4
Hazardous Materials Technician.....	5-5

Industries with in-house fire departments can also register for the Volunteer Certification Program, Field Trainer Program and the Officer Training Program as well as any other Academy Programs.

INDUSTRIAL FIRE FIGHTER		
COURSE MAP		
Basic	Intermediate	Advanced
Basic Fire Science	Hazmat Operations	Hazmat Technician
General Physics	Refinery Fire Fighting	Hazmat Technician Refresher
Technical Math	Industrial Fire Fighting	
Hazmat Awareness		
Basic Tank Car		
Fire Safety At Work		

FIRE SAFETY AT WORK

Who Should Attend:	Intended for employees and supervisors with job responsibilities in fire safety, and anyone with an interest in fire prevention and response.
Prerequisites:	None
Presentation:	This course was developed in conjunction with the Open Learning Agency and is on a self study basis. Candidates have access to a tutor. Candidates will be required to submit four (4) written projects and pass an exam.
Duration:	120 hours - Self Study
Location:	Classroom format will be offered if there is sufficient demand for five full days (one day a week on the same day of the week).

Course Content

1. Nature of fire.
2. Common fuels.
3. Ignition sources.
4. Hazards of building types.
5. Fire prevention.
6. Fire drills.
7. Portable extinguishers.
8. Prepare a fire safety plan.
9. Conduct fire inspection.
10. Train employees in fire safety.
11. Lead fire drills.

HAZARDOUS MATERIALS AWARENESS

Who Should Attend:	Those whose duties include response to incidents involving hazardous materials, such as employees of process industries, members of fire departments and those involved in the transportation and handling of hazardous materials.
Prerequisites:	None
Presentation:	A 'hands-on' approach is favoured, with as much practical work as possible. Responses to simulated incidents are an integral part of the courses.
Duration:	2 days (0830 - 1600 daily)
Class Size:	Minimum 8, maximum 12
Location:	Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

Course Content

This is an accredited program through the International Fire Service Congress in conformance with NFPA 472.

This course will provide those individuals who may be first on the scene of an incident involving hazardous materials, with the knowledge and awareness to defensively initiate a planned response in a manner which will afford maximum protection to people, property and the environment.

HAZARDOUS MATERIALS OPERATIONS

Who Should Attend:	Those whose duties include response to incidents involving hazardous materials, such as employees of process industries, members of fire departments and those involved in the transportation and handling of hazardous materials.
Prerequisites:	Successful completion of Awareness Level, from an accredited training group. Students should show documentary evidence of a minimum of 8 hours training on "Awareness."
Presentation:	A 'hands-on' approach is favoured, with as much practical work as possible. Responses to simulated incidents are an integral part of the courses.
Duration:	35 hours (including self-study)
Class Size:	Minimum 8, maximum 12
Location:	Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

Course Content

This is an accredited program through the International Fire Service Congress in conformance with NFPA 472.

This course will provide response personnel with the basic knowledge and skills to perform tasks required to control the incident, within the limitations of equipment and resources.

Prerequisites: Successful completion of Awareness Level, from an accredited training group. Students should show documentary evidence of a minimum of 8 hours training on 'Awareness.'

HAZARDOUS MATERIALS TECHNICIAN

Who Should Attend:	Those whose duties include response to incidents involving hazardous materials, such as employees of process industries, members of fire departments and those involved in the transportation and handling of hazardous materials.
Prerequisites:	Successful completion of Operations Level.
Presentation:	In all courses, a 'hands-on' approach is favoured, with as much practical work as possible. Responses to simulated incidents are an integral part of the courses.
Duration:	35 hours (including self-study) - day 3 will end late to facilitate an evening exercise
Class Size:	Minimum 8, maximum 12
Location:	Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

This program is in conformance with NFPA 472.

Course Content

The primary goal of this training is to prevent hazardous materials technicians from being injured or allowing others and the environment to be injured. Secondary goals aim at identifying specific guidelines for site operations based on safety, and increasing your appreciation for the dangers posed by exposure to hazardous materials. This "Technician" level course is designed to train you to safely respond offensively to hazardous materials incidents - not as Haz-Mat experts, but rather to protect exposures from harm like people, the environment, property and equipment by properly approaching the point of the release in order to plug, patch or otherwise stop the release.

To do this we will need to look at such things as conducting hazard and risk assessment at each incident site; using monitoring instruments and detection techniques to characterize the site hazards; selecting and using the proper protective clothing and equipment necessary for the site operations; conducting control and containment operations to limit/prevent harm to life and the environment; conducting decontamination of protective clothing and equipment; other operations and procedures used by the Hazardous Materials Technicians that are more sophisticated than those used by personnel responding at the Fire Responder Operations level.

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COURSES OFFERED SPECIFIC TO THE MARINE INDUSTRY

SECTION CONTENTS

Marine Emergency Duties Course Map	6-1
Basic Safety MED A1	6-2
Small Vessel Safety MED A2	6-3
Marine Fire Fighting MED B-2.....	6-4
Officer Certification MED C.....	6-6
Senior Officer MED D.....	6-7

MARINE EMERGENCY		
COURSE MAP		
Basic	Intermediate	Advanced
Basic Safety	Survival Craft (A1)	Officer Certification Course (C)
Small Vessel Safety Course (A2)	Marine Fire Fighting Course (B2)	Senior Officer Course (D)

BASIC SAFETY MED A1

Who Should Attend:	This course is designed for new entrants to the marine industry and for personnel who have not received any formal training in marine emergency duties.
Prerequisites:	None. It is strongly recommended that all seafarers complete this course within six months of first going to sea.
Presentation:	Lectures and demonstrations are enriched by audio-visual instructional aids. Practical exercises include real fire fighting with fire extinguishers. The life raft and survival exercises are conducted in both a training tank and open waters.
Duration:	3 days, 21 hours
Class Size:	Minimum 8, maximum 24
Location:	Day 1 - BCIT, PMTC North Shore Day 2 - Fire and Safety Training Centre Day 3 - BCIT, PMTC North Shore
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

Course Content

Approved by the Canadian Coast Guard, it meets the requirements of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, and the Resolution of the International Marine Organization for basic training in personal survival, operation of life saving equipment and marine fire fighting.

This course will provide mariners with basic understanding of the hazards associated with the marine environment and their own vessel; the prevention of shipboard incidents including fire; to provide knowledge necessary to raise and react to alarms and react to other emergencies; to provide assistance in fire and abandonment emergency situations; to provide all seafarers with knowledge and skills necessary for their own survival and rescue.

The Fire Fighting Component (Day 2) is conducted at the Fire & Safety Training Centre in Maple Ridge. Contact BCIT Pacific Marine Training Campus at (604) 985-0622 to register.

SMALL VESSEL SAFETY MED A2

Who Should Attend:	This course is designed for Officers and Crew of small commercial vessels (up to 40 tons gross tonnage). It is also recommended for pleasure craft operators.
Prerequisites:	None.
Presentation:	Lectures and demonstrations are enriched by audio-visual instructional aids. "Hands-On" exercises include fire fighting using hoses and portable fire extinguishers. The life raft, lifeboat and survival exercises are conducted in our training tank and adjacent harbour waters.
Duration:	4 days - report to Registration at PMTI-BCIT before 0830 on the first day of the course
Class Size:	Minimum 8, maximum 24
Location:	Day 1, 3, 4 - BCIT, North Shore Day 2 - Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

Course Content

Approved by the Canadian Coast Guard, it meets the requirements of the International Convention on Standards of Training, Certification, and Watchkeeping for Seafarers, and the Resolution of the International Maritime Organization for basic training in personal survival, operation of life saving equipment and marine fire fighting.

This course will provide small boat operators and their crew with an understanding of the hazards associated with the marine environment and their craft; and prevention of shipboard accidents including fire; to provide knowledge and skills required to fight small shipboard fires and necessary skills to enable them to abandon their vessel safely in emergency; to provide knowledge and skills necessary for survival and rescue of themselves and others; and to ensure that their equipment and the vessel's crew are in a state of readiness, organized and prepared for an emergency.

The Fire Fighting Component (Day 2) is conducted at the Fire & Safety Training Centre in Maple Ridge. Contact BCIT Pacific Marine Training Campus at (604) 985-0622 to register.

MARINE FIRE FIGHTING MED B2

Who Should Attend:	This course is designed for Master minor waters and junior officers certifications, and for certified ratings. Personnel are required to complete a comprehensive MED training program of which B-2 is one component.
Prerequisites:	Completion of emergency duties training course A-1 or A-2. It is recommended that trainees have acquired a minimum 3 month sea time before enrolling in this course.
Presentation:	Practical exercises form the major part of the course and include use of breathing apparatus in a smoke filled atmosphere and during fire fighting; 'Hot Fire' training using extinguishers, hoses and nozzles on pan fires, round tank and T-pit; and internal fires in the ship 'mock up'. Lectures and demonstrations are enriched by audio-visual instructional aids.
Duration:	5 days, 35 hours
Class Size:	Minimum 8, maximum 12
Location:	Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

Course Content

Approved by the Canadian Coast Guard, it meets the requirements of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, and the Resolution of the International Marine Organization for basic training in personal survival, operation of life saving equipment and marine fire fighting.

This course will provide leaders and members of shipboard emergency teams with the knowledge and skills necessary to contain and extinguish shipboard fires; to be aware of fire hazards; to implement fire prevention measures and to use equipment properly and effectively.

1. Marine Fire Theory
 - Theory of fire
 - Classes of fire
 - Stages of fire

-
- Techniques of fire fighting
 - Duties of team members
2. Marine Fire Safety and Prevention
 - Systematic attack methods
 - Fire prevention techniques
 - Crew training and fire drills
 3. Protective Gear: Rescue Techniques
 - Protective clothing and equipment
 - Techniques of ventilation
 - Planning a search and rescue operation
 - Methods of handling casualties
 4. Fire Extinguishing Equipment and Agents
 - Fixed systems
 - Portable extinguishers (dry chemical, water, foam, CO₂, halon)
 - Use of portable extinguishers on pan fires
 - Use of foam equipment
 - Use of hoses and nozzles
 - Practice extinguishing round tank and t-pit fires
 5. Ship Construction and Arrangement
 - Describe and recognize Class A, B, & C Divisions
 - Discuss various types of hatches, manually and automatically operated doors
 6. On Board Control Measures
 - Fire fighting techniques
 - Preplanning of emergency response
 - Duties of team leader
 - Duties of team member
 - Full scale fixed field exercises
 7. Review and planning for on board fire prevention and fire fighting strategies.

To register, contact BCIT Pacific Marine Training Campus at (604) 985-0622.

OFFICER CERTIFICATION MED C

Who Should Attend:	Deck and Engineer Junior Officers of commercial vessels.
Prerequisites:	Successful completion of Emergency Duties Training Course B1 and B2.
Presentation:	50% of the time in the course will be devoted to practical exercises. Hands-on exercises include inspection, maintenance and use of emergency equipment. Lectures and demonstrations are enriched by audio-visual instructional aids.
Duration:	3 days
Class Size:	Minimum 8, maximum 12
Location:	Day 1 and 2 - PMTI-BCIT Day 3 - Fire and Safety Training Centre
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

Course Content

Approved by the Canadian Coast Guard, it meets the requirements of the International Convention on Standards of Training, Certification and Watchkeeping for seafarers and the resolution of the International Maritime Organization for advanced training in the proper use of modern emergency equipment.

This course will provide junior officers and key personnel with the knowledge and skills necessary to:

- competently and confidently inspect and maintain all emergency equipment
- maintain fixed fire detection and extinguishing systems, and appreciate their limitations
- respond professionally to an emergency situation and lead an emergency response team
- keep a log of salient events during an emergency
- control passengers and untrained personnel during an emergency
- respond professionally to a distress call and execute search and rescue of survivors
- conduct formal on-board training sessions and the on-board familiarization and safety training course

The Fire Fighting Component (Day 3) is conducted at the Fire & Safety Training Centre in Maple Ridge. Contact BCIT Pacific Marine Training Campus at (604) 985-0622 to register.

SENIOR OFFICER MED D

Who Should Attend:	Candidates for senior certificates of competency required for Master, Chief Officer, Chief Engineer and Second Engineer positions.
Prerequisites:	Successful completion of MED C.
Presentation:	Practical exercises include management of a fire emergency situation. Lectures and demonstrations are enriched by audio-visual instructional aids.
Duration:	2 days (0830 - 1600 daily)
Class Size:	Minimum 8, maximum 12
Location:	Day 1 - Fire and Safety Training Centre Day 2 - PMTI-BCIT, North Shore
Certification:	A Certificate of Achievement is awarded upon successful completion. Full attendance and participation is required. All students must pass a written test.

Course Content

Approved by the Canadian Coast Guard, it meets the requirements of the International Convention on Standards of Training, Certification and Watchkeeping for seafarers, and the resolution of the International Maritime Organization for advanced training in response to any marine emergency situation by ship's senior management personnel.

This course will provide ship's senior officers with the knowledge and skills necessary to:

- ensure that junior officers, key personnel and emergency response team are properly prepared and organized to deal with any emergency situation
- assess damage to the vessel, evaluate degree of danger and coordinate the response to minimize the effect of damage
- coordinate response to an emergency situation on their own vessel, and to other vessels in distress

The Fire Fighting Component (Day 1) is conducted at the Fire & Safety Training Centre in Maple Ridge. Contact BCIT Pacific Marine Training Campus at (604) 985-0622 to register.

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