

Justice Institute of British Columbia COURSE OUTLINE

Course Code: FSFK110

Course Title: Intermediate Fire Fighter Knowledge

Prerequisite Courses: Basic Fire Fighter Knowledge

School: School of Public Safety & Security

Division/Academy/Centre: Fire & Safety Division

Previous Course Code & Title: N/A

Course First Offered: 2014

# of Credits:	3
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Course Description:

Build upon your basic understanding of firefighting. Explore response and size-up, water supply, ropes and knots, ladders, ventilation, portable fire extinguishers, fire attack lines and foam, forcible entry, and vehicle extrication. Learn how to safely and efficiently respond to an alarm and conduct fire-ground operations at the scene of an emergency incident.

Course Goal(s):

The goal of this course is to provide learners with further knowledge required to meet the National Fire Protection Association (NFPA) 1001 *Standard for Fire Fighter Professional Qualifications*.

Learning Outcomes:

Upon successful completion of this course, the learner will be able to:

1. Describe how to safely and efficiently prepare for, respond to an alarm, and arrive at the scene of an emergency incident.
2. Define and describe the systematic process of size-up.
3. Describe the hydraulic or behaviour of flowing water from various water supply sources.
4. Describe how to operate and test fire hydrants.
5. Describe the types of ropes used in the fire service and their construction, maintenance, and application.
6. Tie eight essential knots used for securing, hoisting, and lowering personnel and equipment.
7. Describe how ropes are used in various rescue situations.
8. Describe how to lift, carry, position, raise, secure, climb, maintain and inspect fire service ladders.
9. Describe the effects of fire behavior and building construction on ventilation.
10. Describe how to perform horizontal, vertical, mechanical, positive-pressure, and negative-pressure ventilation.
11. Describe safety precautions for ventilation, indicators of roof collapse, and the prevention of backdraft and flashover.

12. Describe how to safely operate and maintain the most common types of portable fire extinguishers.
13. Describe the basic concepts of attack hoses and nozzle functions, selection, and construction.
14. Explain how to advance lines, load hose, and use different nozzles and foam systems.
15. Discuss the association between specific tools and special forcible entry needs.
16. Describe the construction of typical doors, windows, and walls, and how to force entry through each using a variety of tools.
17. Describe how to properly force entry through doors, windows, and walls using a variety of tools.
18. Describe the Fire Fighter's role in stabilizing and removing victims of motor vehicle crashes.
19. Discuss the tools required for victim extrication and the associated extrication skills to gain access via displacing a door, dashboard, or roof.

Course Topics/Content:

- Response and Size-Up
- Water Supply
- Ropes and Knots
- Ladders
- Ventilation
- Portable Fire Extinguishers
- Fire Attack Lines and Foam
- Forcible Entry
- Vehicle Extrication

Text and Resource Materials:
Required:

International Association of Fire Chiefs, National Fire Protection Association (2014). *Fundamentals of Fire Fighter Skills - Canadian Third Edition*. Burlington, MA: Jones and Bartlett Learning.

Recommended:

N/A

Course Level:

X	First Year		Second Year		Third Year		Fourth Year
	Graduate		Other (describe):				

Equivalent Course(s) within the JIBC:

N/A

Class Delivery Methods:

Delivery Methods	Class Option A (Hours)	Class Option B (Hours)	Class Option C (Hours)	Class Option D (Hours)
Classroom/Lecture/Discussion	X			
Simulation/Lab				
Praxis Exercise				
Practicum/Fieldwork				
Online		X		
Correspondence				
Total Class Hours	42	42		

Comments on Delivery Methods:

N/A

Course Grading System:

X	Letter Grades		Percentage		Pass/Fail
	Complete/Incomplete		Attendance Only		

Passing Grade:	60%
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Evaluation Activities and Weighting:

Final Exam	40%	Assignments	%	Project	%	Capstone Project	%
Midterm Exam	%	Portfolio	%	Participation	%	Other	%
Quizzes/Test	60%	Simulations	%	Practicum	%	TOTAL	100%

Comments on Evaluation Activities and Weighting:

Upon completion of each module, learners will write a multiple-choice question quiz. The course will culminate in writing a proctored 75-question multiple choice exam that will reflect content covered in each of the four modules.

Other Course Guidelines, Procedures and Comments:

View official versions of related JIBC academic regulations and student policies in the *JIBC Calendar* on the following pages of the JIBC website:

Academic Regulations:

<http://www.jibc.ca/programs-courses/jibc-calendar/academic-regulations>

Student Policies:

<http://www.jibc.ca/about-jibc/governance/policies>

Student Academic Integrity Policy
Academic Progression Policy
Admissions Policy
Academic Appeals Policy
Evaluation Policy
Grading Policy

Access Policy
Harassment Policy – Students
Student Records Policy
Student Code of Conduct Policy

JIBC Core Competencies

The JIBC promotes the development of core and specialized competencies in its programs. Graduates of our programs will demonstrate high levels of competence in the following areas:

Critical thinking

Identify and examine issues and ideas; analyze and evaluate options in a variety of fields with differing assumptions, contents and methods.

Communication, oral and written

Demonstrate effective communication skills by selecting the appropriate style, language and form of communication suitable for different audiences and mediums.

Leadership

Inspire individuals and teams to reach their potential by embracing innovation through strategic thinking and shared responsibility.

Independent learning

Show initiative by acting independently in choosing effective, efficient and appropriate applied learning, research and problem solving strategies.

Globally-Minded

Self-aware of own identity and culture, recognize the interconnectedness of world events and issues; interact respectfully and authentically across cultures; value multiple perspectives; utilize curiosity to learn with and from others.

Problem solving

State problems clearly; effectively and efficiently evaluate alternative solutions; choose solutions that maximize positive and minimize negative outcomes.

Interpersonal relations

Know and manage ourselves; recognize and acknowledge the needs and emotions of others including those with diverse cultures, backgrounds and capabilities.

Inter-professional teamwork

Understand and work productively within and between groups, respect others' perspectives and provide constructive feedback with special attention to inter-professional relationships.

Information literacy

Recognize and analyze the extent and nature of an information need; efficiently locate and retrieve information; evaluate it and its sources critically, and use information effectively and ethically.