

Justice Institute of British Columbia
COURSE OUTLINE**Course Code: FSFK100****Course Title: Basic Fire Fighter Knowledge****Prerequisite Courses: None****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
----------------------	----------

Course Description:

Gain the fundamental knowledge required by fire fighters today. Explore the many duties and responsibilities of the Fire Fighter and the fire service, and be equipped to continue a centuries-old tradition of preserving lives and property threatened by fire. Examine safe practices and techniques for operating Fire Department apparatus, tools and equipment. Learn how to communicate effectively, in various emergency and non-emergency situations, using fire service terminology, technology and SOPs. Understand the factors that affect suppression and rescue activities.

Course Goal(s):

The goal of this course is to provide learners with the knowledge required to meet the National Fire Protection Association (NFPA) 1001 *Standard for Fire Fighter Professional Qualifications* (2013 edition).

Learning Outcomes:

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

1. Describe the roles and responsibilities of the fire service and fire fighters.
2. Describe guidelines and procedures, command structure, roles within the fire department, and the history of the fire service.
3. Describe the risks and hazards that fire fighters face.
4. Describe the safety and health measures they must take to prevent injuries and line-of-duty deaths.
5. Describe the complete sequence of donning and doffing the personal protective equipment (PPE) ensemble used in structural firefighting.
6. Explain the design elements, features, limitations, inspection, care and maintenance of the PPE structural firefighting ensemble.
7. Explain how a personal alert safety system (PASS) helps ensure fire fighter safety.
8. Describe the types, use and, physical and psychological limitations of the various types of self-contained breathing apparatus (SCBA).
9. Explain procedures and sequence for inspecting, maintaining, refilling and cleaning the various types of SCBA.

10. Describe types of searches, how searches are conducted, how to ensure fire fighter safety during a search, and various rescue techniques.
11. Discuss the processes, techniques, and equipment used for fire service communications to ensure personal safety, smooth operations, and adequate incident reporting.
12. Describe how to receive an emergency call, obtain necessary information, and initiate a response.
13. Discuss the history, characteristics and organization of the incident management system (IMS).
14. Describe how to function within an assigned role within the IMS and transfer of command.
15. Describe fire behavior, the chemistry of combustion, and the art of reading smoke to help predict what it is likely to do can literally mean the difference between life or death for the fire fighter.
16. Describe the characteristics of liquid-fuel fires, gas-fuel fires, and interior structure fires, including flashover and backdraft.
17. Describe the characteristics of various building components and how each reacts to fire.
18. Describe the five types of building construction, the types of materials used in each, and the effect of fire on the structural integrity of each type of building construction.
19. Describe various building components, including foundations, ceilings, roofs, trusses, doors, and walls and how they affect fire suppression operations.
20. Describe the functional categories of tools, including rotating, pushing/pulling, prying/spreading, striking, and cutting used in the fire service.
21. Describe how to stage, select, safely use, inspect and maintain the types of hand-operated and power-supplied tools and equipment used in various phase of fire suppression and rescue operations.

Course Topics/Content:

- Orientation and History
- Firefighter Safety
- PPE and SCBA
- Search and Rescue
- Fire Service Communications
- Incident Management System
- Fire Behaviour
- Building Construction
- Fire Fighter Tools and Equipment

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%
-----------------------	-----

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

Student Policies:

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

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.