

Justice Institute of British Columbia
COURSE OUTLINE**Course Code: FSFK120****Course Title: Advanced Fire Fighter Knowledge****Prerequisite Courses:**

- **Basic Fire Fighter Knowledge**
- **Intermediate 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:

Explore the reality of fire fighter survival, gain knowledge to help you understand wildland and ground fires, and examine the critical elements of fire suppression and suppression systems. Learn about salvage and overhaul, special rescue teams, as well as fire prevention and public education. Familiarize yourself with Fire Fighter rehabilitation issues, extreme cold weather considerations, pre-incident planning, plus fire detection, protection, and fire cause determination. Learn the theory that will help you safely and efficiently respond to 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 the components of a personnel accountability system, the role of the rapid intervention crew, self-rescue techniques, and how to conserve their air supply should an emergency situation arise.
2. Explain the critical incident stress management process.
3. Describe the various methods of combating and suppressing wildland fires and ground fires.
4. Describe the tools and personal protective equipment (PPE) needed to safely operate at the scene of wildland and ground fires.
5. Describe the special considerations for fires in large buildings, basements, concealed spaces, above ground level, lumberyards, energized equipment, and flammable gases and liquids.
6. Explain how to operate hose lines; use fire streams; conduct indirect, direct, and combination fire attacks; operate master stream devices; and extinguish vehicle fires.
7. Describe the purposes and practices of salvage and overhaul within the context of overall fire suppression operations.

8. Describe the correct use of salvage covers, ventilation, and other equipment in protecting property from the effects of smoke and water.
9. Explain the correct use of hand tools in exposing and extinguishing smoldering or hidden pockets of fire.
10. Describe the eight types of rescue operations.
11. Explain the fire fighter's role in approaching incidents and assisting special rescue teams.
12. Describe how to establish a barrier at a scene of a special rescue.
13. Identify appropriate rescue tools for special rescues.
14. Explain the basic premise of fire prevention and public fire education.
15. Describe how to teach stop, drop, and roll; to conduct exit drills in the home (EDITH); install and maintain smoke alarms; perform a home fire safety inspection; and conduct a fire station tour.
16. Define emergency incident rehabilitation and describe its place in the overall emergency effort, including the factors, cause, and need for rehabilitation and the types of incidents affecting fire fighter rehabilitation.
17. Explaining the seven functions of emergency incident rehabilitation and the four components of revitalization.
18. Discuss the fire fighter's personal responsibility in the rehabilitation process.
19. Describe how to prepare fire apparatus, the water supply, and personnel for an extreme-cold-weather response.
20. Explain the precautions to take when responding and arriving at an incident.
21. Describe fire ground tactics used when suppressing a fire in extreme cold weather.
22. Describe the content of a preincident plan, its importance for both strategic and tactical incident management of the emergency scene, and the techniques for gathering pertinent data.
23. Explain the importance and the purpose of preincident planning.
24. Identify the types of properties that require preincident plans.
25. Describe the steps involved in preincident planning, including conducting a preincident survey and making note of tactical information and occupancy considerations.
26. Describe the components and functions of a fire alarm system and the basic types of fire alarm initiation devices.
27. Identify various sprinkler heads and indicating valves.
28. Describe and identify automatic sprinkler systems, standpipe systems, and specialized extinguishing systems.
29. Discuss the role and relationship of the fire fighter to criminal investigators and insurance investigators.
30. Explain what observations fire fighters should make during fire ground operations and the importance of evidence preservation.

Course Topics/Content:

- Fire Fighter Survival
- Wildland and Ground Fires
- Fire Suppression
- Salvage and Overhaul
- Assisting Special Rescue Teams
- Fire Prevention and Public Education
- Fire Fighter Rehabilitation
- Extreme Cold Weather
- Preincident Planning
- Fire Detection, Protection, Suppression Systems
- Fire Cause Determination

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 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.