COLLEGE OF THE ROCKIES

Incident Safety Officer – FIRE 215

Fire Innovation Training Certification

Course Outline

COURSE IMPLEMENTATION DATE: **September 2008**
OUTLINE EFFECTIVE DATE: **September 2024**
COURSE OUTLINE REVIEW DATE: **April 2029**

GENERAL COURSE DESCRIPTION:

This course complies with the standards set by Chapter 5 of NFPA 1521 (2020): Standard for Fire Department Safety Officer Professional Qualifications. To provide students with the knowledge and skills needed to perform the duties of the Incident Safety Officer (ISO) during incident operations and training evolutions.

This course is designed for fire and rescue services responders who may be designated by the Incident Commander (IC) as an ISO while working within an Incident Command System (ICS). These assignments may occur during structure firefighting, wildland firefighting, technical rescues, hazardous materials responses, and training evolutions.

Program Information: This course is designed for students currently in the fire service seeking to further their career.

Delivery: This course is delivered face-to-face only.

COTR Credits: 2

Hours for this course: 32 hours

Typical Structure of Instructional Hours:

Instructional Activity	Duration
Lecture Hours	24
Projects	8
Laboratory / Studio Hours	
Practicum / Field Experience	
Other Contact Hours	
Total	32

Practicum Hours (if applicable):

Type of Practicum	Duration
On-the-Job Experience	N/A
Formal Work Experience	N/A
Other	N/A
Total	N/A

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Course Outline Author or Contact:
Rick Prasad, Fire Instructor

Signature

APPROVAL SIGNATURES:

Department Head
Joy Brown
E-mail: jbrown3@cotr.bc.ca

Department Head Signature

Dean of Trades and Technology
Dr. Jack Moes
E-mail: jmoes@cotr.bc.ca

Dean Signature

EDCO

Valid from: September 2024 – April 2029

Education Council Approval Date

COURSE PREREQUISITES AND TRANSFER CREDIT:

Prerequisites: NFPA 1001 – Fire Fighter 1 & 2 and NFPA 1021 – Fire Officer 1

Corequisites: None

Flexible Assessment (FA):

Credit can be awarded for this course through FA ☑ Yes ☐ No

Learners may request formal recognition for flexible assessment at the College of the Rockies through one or more of the following processes: External Evaluation, Worksite Assessment, Demonstration, Standardized Test, Self-assessment, Interview, Products/Portfolio, Challenge Exam. Contact an Education Advisor for more information.

Transfer Credit: For transfer information within British Columbia, Alberta and other institutions, please visit http://www.cotr.bc.ca/Transfer.

Student should also contact an academic advisor at the institution where they want transfer credit.

Prior Course Number: N/A

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Textbooks and Required Resources:

Textbook selection varies by instructor and may change from year to year. At the Course Outline Effective Date the following textbooks were in use:

Jones & Bartlett Fire Department Incident Safety Officer, Third Edition (Revised)

Please see the instructor's syllabus or check COTR's online text calculator https://textbook.cotr.bc.ca/ for a complete list of the currently required textbooks.

LEARNING OUTCOMES:

Upon the successful completion of this course, students will be able to perform the duties of a Incident Safety Officer to the criteria set by the National Fire Protection Association, standard NFPA 1521:

- perform the role of ISO within an ICS at an incident or planned event;
- monitor the IAP, conditions, activities, and operations;
- mange the transfer of ISO duties;
- stop, alter, or suspend operations based on imminent threats posed to fire fighter safety;
- monitor and determine the incident scene conditions;
- monitor the accountability system;
- determine hazardous incident conditions;
- identify motor vehicle incident scene hazards;
- monitor radio transmissions;
- identify the incident strategic requirements;
- determine the hazards associated with the designation of a landing zone and interface with helicopters;
- notify the IC of the need for intervention resulting from an occupational exposure to atypical stressful events;
- determine hazardous energy sources that can affect responder health and safety; and
- monitor conditions, including weather, firefighter activities, and work cycle durations.

COURSE TOPICS:

- The Safety Officer Role
- Safety Concepts
- Guiding Laws, Regulations, and Standards
- Designing an Incident Safety Officer Systems
- Reading Building
- Reading Smoke
- Reading Risk
- Reading Hazardous Energy
- Reading Firefighters
- Triggers, Traps, and Working with the Incident Commander
- A Systematic approach to the ISO Role
- The ISO at Structure Fire
- The ISO at Wildland and I-Zone Fire
- The ISO at Hazardous Materials Incidents

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- Post incident Responsibilities and Mishap Investigations
- The ISO at Training Drills and Special Events

EVALUATION AND ASSESSMENTS:

Assessment of learning follows standard testing procedures as defined by the Pro Board Fire Officer Professional Qualifications System.

Assessment	% Of Total Grade
The **theory** portion of the course is assessed with a Pro Board-approved written test. Students must achieve a minimum mark of 70%.	50%
The **practical assignment** portion of the course is assessed on a pass/fail basis. Students must earn a passing grade on each of the skills tests as required by the Pro Board.	50%
A passing grade is required in both theory and practical skills components in order to earn credit for the course.	100%

EXAM POLICY:

Students must attend all required scheduled exams that make up a final grade at the appointed time and place.

Individual instructors may accommodate for illness or personal crisis. Additional accommodation will not be made unless a written request is sent to and approved by the appropriate Department Head prior to the schedules exam.

Any student who misses a scheduled exam without approval will be given a grade of "0" for the exam.

COURSE GRADE:

COM	Completed to defined standard
NCG	No Credit Granted

A grade of COM is awarded for a minimum of 70% on all theory based tests and a pass on all practical assignments.

ACADEMIC POLICIES:

See www.cotr.bc.ca/policies for general college policies related to course activities, including grade appeals, cheating and plagiarism.

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COURSE CHANGES:

Information contained in course outlines is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment and marketing needs. The instructor endeavours to provide notice of changes to students as soon as possible. The instructor reserves the right to add or delete material from courses.

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