



## Hazardous Materials Awareness – FIRE 111

### Fire Training Certification

### Course Outline

COURSE IMPLEMENTATION DATE: September 2015  
OUTLINE EFFECTIVE DATE: September 2019  
COURSE OUTLINE REVIEW DATE: April 2024

---

#### GENERAL COURSE DESCRIPTION:

This course complies with the standards set by National Fire Protection Association (NFPA) 1072 (Awareness) and prepares people who may, in the course of their duties, encounter an emergency involving hazardous materials or weapons of mass destruction (WMD). Students learn to recognize the presence of hazardous materials, protect themselves, call for trained personnel, and secure the area. The goal of this course is to enable those on the scene of a hazardous materials or WMD incident to apply essential knowledge in a safe and effective manner.

---

**Program Information:** This course is a required course for the Fire Training Certification program. It is also delivered as a standalone course or as a part of a specialized contract training program.

---

**Delivery:** This course is delivered face-to-face, or in a hybrid delivery model.

**COTR Credits:** 0.5

**Hours for this course:** 8 hours

#### Typical Structure of Instructional Hours:

Instructional Activity	Duration
Lecture Hours	8
Practical Skills Training	0
Laboratory / Studio Hours	
Practicum / Field Experience	
Other Contact Hours	
<b>Total</b>	<b>8</b>

#### Practicum Hours (if applicable):

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

**Course Outline Author or Contact:**

Rick Prasad, Lead Fire Instructor

\_\_\_\_\_  
Signature

---

**APPROVAL SIGNATURES:**

Department Head

Joy Brown

E-mail: [jbrown3@cotr.bc.ca](mailto:jbrown3@cotr.bc.ca)

Dean of Trades and Technology

Dr. Jack Moes

E-mail: [jmoes@cotr.bc.ca](mailto:jmoes@cotr.bc.ca)

\_\_\_\_\_  
Department Head Signature

\_\_\_\_\_  
Dean Signature

EDCO

Valid from: September 2019 – April 2024

\_\_\_\_\_  
Education Council Approval Date

---

**COURSE PREREQUISITES AND TRANSFER CREDIT:**

**Prerequisites:** None

**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

---

## 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, 2<sup>nd</sup> Edition Hazardous Materials Awareness and Operations

*Please see the instructor syllabus or check COTR's online text calculator*

*[http://www.cotr.bc.ca/bookstore/cotr\\_web.asp?IDNumber=164](http://www.cotr.bc.ca/bookstore/cotr_web.asp?IDNumber=164) 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 an Awareness Level Trained Emergency Responder according to the criteria set by the National Fire Protection Association, Standard NFPA 1072:

- analyse incidents to detect the presence of hazardous materials/weapons of mass destruction (WMD);
  - identify and collect basic hazard and response information from relevant sources; and
  - implement protective actions and notification processes consistent with the governing authority and sources.
- 

## COURSE TOPICS:

The order in which course topics are delivered may vary in order to accommodate student interests, prior knowledge, and complementary or co-delivered training courses.

- Distinguish between hazardous materials incidents and other emergencies
- Describe the various types of hazardous materials hazards
- Explain how hazardous materials enter the body
- Describe North American hazardous materials regulations and definitions
- Identify seven clues to the presence of hazardous materials
- Understand the various types of monitoring and detection devices
- Interpret representative shipping papers and material safety data sheets
- Explain how to identify terrorist attacks and illicit laboratories
- Discuss predetermined procedures and emergency response plans
- Describe notification requirements
- Obtain information about a hazardous materials using the Transport Canada *Emergency Response Guidebook*
- Describe isolation and discuss denial of entry
- Discuss the reasons for, and the effects of, terrorist incidents

*See instructor syllabus for the detailed outline of weekly readings, activities and assignments.*

---

## EVALUATION AND ASSESSMENT:

Assessment of learning follows standard testing procedures as defined by the Pro Board Fire Service Professional Qualifications System; i.e.;

Assessment	% Of Total Grade
The <b>theory</b> portion of the course is assessed with a Pro Board-approved written test. Students must achieve a minimum mark of 70%.	50%
The <b>practical skills</b> 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.	<u>50%</u> 100%
A passing grade is required in both theory and practical skills components in order to earn credit for the course.	

*Please see the instructor syllabus for specific classroom policies related to this course, such as details of evaluation, penalties for late assignments and use of electronic aids.*

---

## 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 scheduled exam.

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

---

## COURSE GRADE:

Course grades are assigned as follows:

<b>COM</b>	Completed to defined standard
<b>NCG</b>	No Credit Granted

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

***All courses (whether credit-bearing or continuing education courses) must be passed or marked "complete" according to the criteria listed before the student can be awarded the COTR Fire Services Training Certificate.***

---

**ACADEMIC POLICIES:**

See [www.cotr.bc.ca/policies](http://www.cotr.bc.ca/policies) for general college policies related to course activities, including grade appeals, cheating and plagiarism.

---

**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.