

FE1-FOCD

Fire, Cause Determination, AFC 2014

2 Credits

Instructor: TBA

Phone:

Original Developer: Chris Senaratne

Current Developer: Caylie Gnyra

Reviewer: Alan Jones

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FE1-FOCD Version: 3



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Calendar Description

This 32-hour course gives students a basic knowledge of what is expected of investigators in the fire discipline. The course describes the physical evidence at a fire scene and develops the skills investigators need to interpret fire patterns and the physical evidence.

Rationale

This is a required course for the Emergency Services Technology -- Fire Specialization program. It prepares students for career advancement in the field of fire investigation. Fire investigators must train all their senses to observe and then interpret their observations according to the most credible scientific explanations to determine cause and origin of a fire.

Prerequisites

FE1-LFSC Introduction to the Safety Codes System in Alberta
FE1-BCPS Fire, Building Construction & Protection Systems, AFC 2014
FE1-PMSC Fire, Properties of Materials, AFC 2014
FE1CSSC Communication Skills
FE1-FSFSC Fire Service Familiarization

Co-Requisites

None

Course Learning Outcomes

Upon successful completion of this course, students will be able to

1. identify and interpret fire patterns and physical evidence at a fire scene
2. determine the origin and cause of a fire
3. complete the appropriate fire reports after an investigation.

Resource Materials

Safety Codes Council online material

Conduct of Course

A. Methods

1. Online

B. Aids

1. PowerPoint
2. White board

C. Assignment

1. Self-testing exercises in the Safety Codes Council online material

D. Study Time

1. 8 hours

Evaluation Procedures

Written exam, 70% pass mark.

Grade Equivalents and Course Pass Requirements

The final mark is given as a letter grade.

Letter	F	B-	B	B+	A-	A	A+
Percent Range	0-69	70-74	75-79	80-84	85-89	90-94	95-100
Points	0.00	2.70	3.00	3.30	3.70	4.00	4.00

Attendance

Regular attendance is essential for success in any course. Absence for any reason does not relieve a student of the responsibility of completing course work and assignments to the satisfaction of the instructor. Poor attendance may result in the termination of a student from a course.

Course Units/Topics

1. Fire reports, reporting and note taking
2. Fire science and fire behaviour
3. Fire patterns, burn patterns and fire indicators
4. Initial investigation

5. Area of origin
6. Basics electricity
7. Investigation of vehicle fires
8. Explosions
9. The crime of arson



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