

Fire Extinguisher Fire Watch Training Standard

CSSTA

2019



Fire Extinguisher and Fire Watch Training

2019

This standard is designed to reflect commercial and industrial training requirements for fire extinguisher and fire watch training.



The course is both theoretical and practical. There is a fire extinguishment component.

This course is intended for a worker who may be required to use a handheld portable fire extinguisher as part of their work duties. It is also intended to provide basic training for a worker as part of a fire watch, commonly called a spark watch in industry. Additional work site specific and employer training will typically be required.

The course submission should identify the intended audience. For example, construction workers, office workers, industrial sites, warehouses, manufacturing. Training material should be written for the intended audience. For example a warehouse training program would be different than a construction site. It is acceptable to write the course intended for all audiences, but relevant information should be provided.

The training course must run between 2-4 hours in length. The course is expected to have a manual that would be approximately 30 pages in length, and about 10 000 to 20 000 words. The manual should have text combined with illustrations or photos to explain topics.

The training course must have a new training manual (paper/electronic), issued to each student. They must be able to take the manual or access it at the end of the course. Also there must be a visual slideshow that follows the manual, and a test.

The course must have a test at the conclusion. The test must have a question that related to the indicated points in the matrix.

Certification will be valid for 3 years.

The submitted course must list the intended audience, including the Province(s), and industry(s).

The course must have a instructor's guide with lesson plans.

Paper work processes as per the Administration Guidelines must be followed.

The following topics must be addressed in the training course.

1. The course must have a set of course objectives.
2. The training must include theory on the elements of the fire triangle and the Fire Tetrahedron must be discussed, this includes:
 - a. The course must discuss the different states of fuels i.e. solids, liquids, gases, and vapours.
 - b. Lower flammable limit, upper flammable limit and explosive range
 - c. The training must define flash point and auto ignition temperature

- d. Energy and heat sources (radiant, mechanical and chemical, etc)
 - e. Flames, electricity, chemical reaction and friction
 - f. Oxygen concentration and its effect on the flammable range.
3. The course must discuss breaking the chemical chain reaction and extinguishing the fire. This includes fire extinguishing methods such as;
- a. Cooling, smothering, removing fuel, disrupting the chemical chain reaction
4. Fire Prevention must be discussed including:
- a. The course must discuss hazard assessments in relation to fires prevention and fire watch.
 - b. This includes topics such as preventing vapors, preventing ignition sources, and keeping workplaces tidy,
 - c. The course must define the types of smoke detectors
 - d. The course must define rescue plans, escape plans, and muster points.
 - e. The course must discuss emergency communication methods and protocol for reporting emergencies.
5. The follow legislation and standards must be identified and appropriately referenced where required.
- a. Provincial OHS including hot work permitting and requirements
 - b. NFPA 51B,
 - c. NFPA 10 and the
 - d. Provincial/National Fire Code
6. The classifications of fires must be defined and discussed. This includes Class A, B, C, D and K Fires
7. Fire Extinguishing Agents and Types of Extinguishers needs to be defined and discussed, this includes:
- a. Agents such as halon, water, dry powder, foam and carbon dioxide sodium bicarbonate, purple d, monoammonium phosphate, AFFF
 - b. Extinguishers such as stored pressure, cartridge operated, water and foam, co2 extinguishers
 - c. Fire Blankets and their uses
8. The course must discuss the fire extinguishing capacity of a fire extinguisher, this includes:
- a. Fire extinguisher size rating by UL classification
 - b. A ratings, BC ratings, extinguisher sizes
9. Fire Extinguishers Inspections must be defined and discussed, this includes;
- a. Monthly inspection , Annual inspection, 6 year visual and 12 year Hydrostatic
 - b. there must be a practical activity where students complete a monthly inspection on an extinguisher
10. Where to Locate a Fire Extinguisher
- a. Basic information on where a fire extinguisher should be located should be discussed. This includes permanent worksites, temporary worksites and vehicles/equipment.

11. The course must explain fire watch responsibilities:
 - a. The need to understand the site specific emergency procedures, and the hot work permit.
 - b. Recognizing areas in danger from hot work, and understand what to look for with signs of fire.
 - c. Being able to understand and use, or alert someone else, (with a higher level of training) to use fire fighting equipment available.
 - d. Correct or stop any conditions that may lead to a fire and report conditions to appropriate personnel.
12. The course must define and explain P.A.S.S
13. There must be an list of examples and discussion on when to extinguish a fire and when to evacuate.
14. The course must discuss emergency response planning, fire safety plans and fire wardens
15. The course must define elements 14. a-c. and discuss the hazards. At a minimum this section is not intended to train anyone how to use a fire hose system in a plant or building, rather to explain what they are and to make the student aware of the hazards.
 - a. fire hydrants
 - b. hazards of hoses and nozzles
 - c. building sprinkler systems
16. (optional) Burns and Burn Treatment
 - a. First, Second and Third Degree Burns and Treatment (note, the course must reference the medical source)
16. Practical Activity-
 - a. Extinguisher a live or simulated fire. Fire must be minimum of 16 sqft.


(note: trainer is ultimately responsible to ensure municipal, provincial, federal and any other code requirements are met).

The training Certificate

The training card is designed to clearly indicate the fire extinguisher training. It should show the amount of hours in the course as well as the training elements.

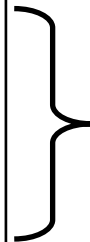

The card can have a section to specifically describe training elements required, the only required activity is the live or simulated fire extinguishment. Listing training elements is optional.

CSSTA Fire Extinguisher Fire Watch
Student: xxxx xxxxx xxxxx
Course Number: 123C7V98-9
Issued/Expired: Jan 12 2018/Jan 12 2011
Training Provider: A Training Company Inc
Instructor: John Smith



CSSTA Fire Extinguisher Fire Watch

Training Elements
Extinguished a live fire using a dry chemical extinguisher
Training on fire warden duties
Emergency response training specific to ABC Company Ltd.



Practical elements listed on the back.

Training Element	Location			
	Training Manual	Audio Visual	Test	Lesson Plan
1				
2				
3				
4				
5				
6				
7				



8				
9				
10				
11				
12				
13				
14				
15				
16 Practical Activity				

