

COURSE HCS3010: WORKPLACE SAFETY PRACTICES

Level: Advanced

Prerequisite: HCS3000: Workplace Safety Systems

Description: Students explore workplace safety principles and practices, and apply these principles and practices to a variety of contexts.

Parameters: Access to a materials work centre and to instruction from an individual with specialized training in worksite/workstation safety.

Note: This course is also a recommended prerequisite for the Registered Apprenticeship Program.

Supporting Resources: *Workplace Health and Safety Teacher Resource Binder 1 & 2*
(www.employment.alberta.ca/SFW/3133.html)

Outcomes: The student will:

1. **define and explain the differences between accidents and incidents and explain causation**
2. **describe the principles and practices of workplace health and safety; e.g., control, pre-personal protection equipment (PPES), Workplace Hazardous Materials Information Systems (WHMIS)**
 - 2.1 describe the principles and practices of workplace health and safety related to the following five hazard identification categories:
 - 2.1.1 ergonomics
 - 2.1.2 physical
 - 2.1.3 psychosocial
 - 2.1.4 chemical
 - 2.1.5 biological
3. **demonstrate an understanding of standards/legislated practices associated with workplace safety**
 - 3.1 demonstrate an understanding of standards/legislated practices associated with fire safety by:
 - 3.1.1 examining and justifying the need for fire safety legislation/standards
 - 3.1.2 identifying the fire classifications and comparing the appropriate extinguishers
 - 3.1.3 analyzing and discussing the elements of fire
 - 3.1.4 developing a plan to safely address potential fire hazards and identifying fire prevention methods
 - 3.1.5 demonstrating the use of portable fire extinguishers
 - 3.2 demonstrate an understanding of standards/legislated practices associated with electrical safety by:
 - 3.2.1 investigating potential electrical hazards at home, at school and in the workplace
 - 3.2.2 developing a plan to safely address potential electrical hazards found in the home, at school and in the workplace
 - 3.2.3 creating a personal strategy for establishing safe work conditions when working with electricity
 - 3.2.4 explaining lockout/tagout procedures on electrical equipment

- 3.3 demonstrate an understanding of standards/legislated practices associated with ladder safety by:
 - 3.3.1 identifying and differentiating what and when different types of ladders should be used
 - 3.3.2 demonstrating the safe setup and use of ladders
 - 3.3.3 identifying and demonstrating the proper inspection, care and storage of ladders
 - 3.3.4 diagramming ladder safety rules
- 3.4 demonstrate an understanding of standards/legislated practices associated with confined space safety by:
 - 3.4.1 examining and justifying the need for confined space legislation and standards
 - 3.4.2 identifying and analyzing what constitutes a confined space and the associated dangers
 - 3.4.3 identifying what tests should be completed before entering that confined space (depending on the potential hazards of a given confined space)
 - 3.4.4 creating a plan to be used before entering a given confined space
 - 3.4.5 discussing the need for a rescue plan; e.g., what should be included and what training should rescuers have (and why)
- 3.5 demonstrate an understanding of standards/legislated practices associated with workplace chemical health and safety by:
 - 3.5.1 examining and justifying the need for WHMIS legislation
 - 3.5.2 identifying the classes of WHMIS-controlled products
 - 3.5.3 describing the role of labels on containers of controlled products, and the type of information that would be found on the labels
 - 3.5.4 describing the role of material safety data sheets, and the type of information that would be found on them
 - 3.5.5 explaining the responsibilities of suppliers, employers and workers when it comes to the safe handling of chemicals in the workplace
- 4. demonstrate basic competencies**
 - 4.1 demonstrate fundamental skills to:
 - 4.1.1 communicate
 - 4.1.2 manage information
 - 4.1.3 use numbers
 - 4.1.4 think and solve problems
 - 4.2 demonstrate personal management skills to:
 - 4.2.1 demonstrate positive attitudes and behaviours
 - 4.2.2 be responsible
 - 4.2.3 be adaptable
 - 4.2.4 learn continuously
 - 4.2.5 work safely
 - 4.3 demonstrate teamwork skills to:
 - 4.3.1 work with others
 - 4.3.2 participate in projects and tasks
- 5. create a transitional strategy to accommodate personal changes and build personal values**
 - 5.1 identify short-term and long-term goals
 - 5.2 identify steps to achieve goals