

## COURSE AGR3000: AGRICULTURE SAFETY

<b>Level:</b>	Advanced
<b>Prerequisite:</b>	None
<b>Description:</b>	Students recognize and assess the hazards and manage the risks of working in agriculture.
<b>Parameters:</b>	Access to appropriate agricultural facilities and/or equipment.
<b>Supporting Courses:</b>	AGR1010: Introduction to Agriculture HCS2020: First Aid/CPR with AED HCS3000: Workplace Safety Systems
<b>Other Resources:</b>	<a href="#">Alberta Labour: Resources for the Classroom</a>
<b>Outcomes:</b>	The student will:

- 1. identify and describe potential hazards found in the agricultural area**
  - 1.1 predict hazards within an agricultural environment; e.g., farm, ranch
  - 1.2 research the different types of hazards (e.g., chemical, physical, ergonomic, biological, psychosocial) and provide examples of each in an agricultural home or environment
  - 1.3 describe the major hazards related to farm machinery; e.g., pinch points, wrap points, shear points, pull-in points, crush points
  - 1.4 describe potential hazards related to animal management by:
    - 1.4.1 listing the most common injuries that occur around animals
    - 1.4.2 identifying and describing the warning signs of a threatened animal
    - 1.4.3 identifying and describing the appropriate way to approach an animal
    - 1.4.4 describing and demonstrating the appropriate way to handle an animal
  - 1.5 identify farm environmental hazards; e.g., sun exposure, water hazards, fuel, human factors
- 2. examine and demonstrate standards/practices associated with agricultural health and safety**
  - 2.1 examine and demonstrate standards/practices associated with fire safety by:
    - 2.1.1 examining and justifying the need for fire safety standards
    - 2.1.2 identifying the fire classifications and comparing the appropriate extinguishers
    - 2.1.3 analyzing and discussing the elements of fire
    - 2.1.4 developing a plan to safely address potential fire hazards and identifying fire prevention methods
    - 2.1.5 demonstrating the use of portable fire extinguishers
  - 2.2 examine and demonstrate standards/practices associated with electrical safety by:
    - 2.2.1 investigating potential electrical hazards at home, at school and in an agricultural area
    - 2.2.2 developing a plan to safely address potential electrical hazards found in the home, at school and on a farm
    - 2.2.3 creating a strategy for establishing safe work conditions when working with electricity
    - 2.2.4 explaining and applying lockout/tagout procedures on electrical equipment

- 2.3 examine and demonstrate standards/practices associated with ladder safety by:
  - 2.3.1 identifying equipment, machinery and structures where ladders are used in an agricultural area
  - 2.3.2 identifying different types of ladders and differentiating when the different types should be used
  - 2.3.3 illustrating the safe set-up and use of ladders
  - 2.3.4 identifying and demonstrating the proper inspection, care and storage of ladders
  - 2.3.5 diagramming ladder safety rules
- 2.4 examine and demonstrate standards/practices associated with confined space safety by:
  - 2.4.1 examining and justifying the need for confined space standards
  - 2.4.2 identifying and analyzing what constitutes a confined space and describing the associated dangers
  - 2.4.3 determining what tests should be completed before entering a confined space, given the potential hazards of the space
  - 2.4.4 creating a plan to be used before entering a given confined space
  - 2.4.5 discussing the need for a rescue plan—what should be included, and what training should rescuers have (and why)
- 2.5 examine and demonstrate standards/practices associated with workplace chemical health and safety by:
  - 2.5.1 examining and justifying the need for WHMIS legislation
  - 2.5.2 identifying the classes of WHMIS controlled products
  - 2.5.3 describing the role of labels on containers of controlled products and describing the type of information that would be found on them
  - 2.5.4 describing the role of material safety data sheets and describing the type of information that would be found on them
  - 2.5.5 explaining the responsibilities of suppliers, employers and workers when it comes to the safe handling of chemicals in the workplace
  - 2.5.6 identifying risk management techniques associated with agricultural chemicals in regard to transportation, storage, spills, handling, exposure and disposal
- 3. identify and demonstrate methods for dealing with potential hazards in the agricultural area**
  - 3.1 describe and demonstrate the use of personal protective equipment (PPE); e.g., helmets, goggles, safety glasses, earmuffs, earplugs, dust masks, respirators, gloves, safety boots
  - 3.2 identify and demonstrate the correct health and safety practices in ergonomic safety procedures; e.g., lifting, loading, shovelling, bending, working alone
  - 3.3 identify and describe common health and safety practices and equipment that should be used around animals
  - 3.4 create an emergency response action plan for rural areas; e.g., location of first aid kits, emergency numbers, emergency addresses, cell phone availability, legal land descriptions and emergency response directions (create a rural emergency plan kit)
  - 3.5 prepare a health and safety action plan for:
    - 3.5.1 farm machinery and equipment safety
    - 3.5.2 chemical safety
    - 3.5.3 fire and electrical hazards
    - 3.5.4 farm environmental hazards
- 4. research and identify legislation and/or exemptions for agricultural health and safety**

**5. demonstrate basic competencies**

- 5.1 demonstrate fundamental skills to:
  - 5.1.1 communicate
  - 5.1.2 manage information
  - 5.1.3 use numbers
  - 5.1.4 think and solve problems
- 5.2 demonstrate personal management skills to:
  - 5.2.1 demonstrate positive attitudes and behaviours
  - 5.2.2 be responsible
  - 5.2.3 be adaptable
  - 5.2.4 learn continuously
  - 5.2.5 work safely
- 5.3 demonstrate teamwork skills to:
  - 5.3.1 work with others
  - 5.3.2 participate in projects and tasks

**6. create a transitional strategy to accommodate personal changes and build personal values**

- 6.1 identify short-term and long-term goals
- 6.2 identify steps to achieve goals