**COURSE OTH9900: COW–CALF OPERATIONS AND CARE 33**

**Prerequisite:** AGR3000: Agriculture Safety (Note: Students are required to complete the prerequisite course prior to enrollment in the first course of the Cow–Calf Beef Production Technician specialization.)

**Description:** Students demonstrate knowledge of cattle welfare and care concerns; demonstrate knowledge of bovine behavioural responses; demonstrate knowledge of cattle-handling techniques and proper use of cattle-handling tools, equipment and facilities; demonstrate a positive attitude toward safety; and demonstrate effective and appropriate interpersonal, communication and employability skills.

**Parameters:** Each of the three courses that constitute the Cow–Calf Beef Production Technician specialization is designed to be delivered off-campus. The annual inspection and approval of the work station, and the monitoring, supervision and assessment of each student’s progress and performance must be done in accordance with the procedures specified in the *Off-campus Education Handbook*.

**Prescribed General Outcomes:** The student will:

- demonstrate a positive attitude toward safety, including:
  - identify safe workplace practices for agricultural operations
  - recognize hazards in agricultural operations
  - minimize hazards in agricultural operations
  - participate in ongoing inspections and training
  - perform basic emergency response procedures
- demonstrate effective and appropriate interpersonal, communication and employability skills, including:
  - manage training and continuing education in the Green Certificate Program
  - communicate and interact effectively in the workplace
  - manage time effectively to complete workplace jobs
  - understand continuous improvement in agricultural operation
  - understand accounts payable and receivable in agricultural operations
  - understand business risks in agricultural operations
• understand insurance and liability in agricultural operations
• identify legislation pertaining to agricultural operations
• identify governing bodies pertaining to agricultural operations
• promote the agricultural industry
• understand cattle traceability requirements

• demonstrate proficiency in handling of cattle, including:
  • demonstrate knowledge of beef animal welfare and care concerns
  • demonstrate knowledge of cattle behaviour responses assessing cattle handling options
  • select effective and appropriate cattle-handling aids and techniques
  • manage and/or avoid hazards to animal health, facility and operator when handling cattle
  • use appropriate personal protective equipment (PPE) for handling
  • identify conditions that affect cattle behaviour and handling
  • operate and maintain livestock-handling equipment (squeeze, head gate, weigh scales, back-scratching equipment)
  • mark cattle for identification
  • receive and ship cattle, including haul livestock using stock trailers

COURSE OTH9901: COW–CALF PROCESSES AND PRACTICES 33

Prerequisite: AGR3000: Agriculture Safety (Note: Students are required to complete the prerequisite course prior to enrollment in the first course of the Cow–Calf Beef Production Technician specialization.)

Description: Students are introduced to the anatomy and physiology of cattle. Students demonstrate their ability to maintain cattle health; operate and monitor a feeding and watering program; recognize and treat specified cattle diseases and disorders; perform basic first aid on cattle; perform basic pest-control operations; assist with a calving program; and safely operate and maintain farm equipment.

Parameters: Each of the three courses that constitute the Cow–Calf Beef Production Technician specialization is designed to be delivered off-campus. The annual inspection and approval of the work station, and the monitoring, supervision and assessment of each student’s progress and performance must be done in accordance with the procedures specified in the Off-campus Education Handbook.

Prescribed General Outcomes: The student will:

• maintain cattle health, including:
  • know cattle physiology and anatomy
  • know common cattle health disorders
  • interpret labels and administer animal treatment drugs
  • provide cattle first aid
  • identify sick or problem cattle
  • monitor cattle during calving time
  • perform a post-calving routine with calves
judge cattle for culling and breeding decisions
apply internal and external pest controls
implant cattle with growth stimulants
know quality assurance programs and beef food safety issues
• maintain a cattle feeding and watering program, including:
  – implement the cattle feeding plan
  – supervise supply of water to cattle
  – operate and maintain a tractor with a front-end loader
  – operate and maintain augers and conveyors
  – operate and maintain a bale shredder and/or grinder
  – operate and maintain feeding and milling equipment
  – operate and maintain a silage wagon

COURSE OTH9902: COW–CALF HUSBANDRY AND SYSTEMS 33

Prerequisite: AGR3000: Agriculture Safety (Note: Students are required to complete the prerequisite course prior to enrollment in the first course of the Cow–Calf Beef Production Technician specialization.)

Description: Students demonstrate the ability to construct, operate and maintain fencing systems; operate trucks and tractors under specified conditions; safely operate and maintain farm vehicles in yards, on fields and on public roads; safely operate and maintain hand tools and power tools; and perform basic services on farm equipment.

Parameters: Each of the three courses that constitute the Cow–Calf Beef Production Technician specialization is designed to be delivered off-campus. The annual inspection and approval of the work station, and the monitoring, supervision and assessment of each student’s progress and performance must be done in accordance with the procedures specified in the Off-campus Education Handbook.

Prescribed General Outcomes: The student will:
• safely operate, maintain and service general farm equipment, including:
  – construct and maintain permanent fences and corrals
  – operate, maintain and service a temporary electric fence system
  – operate, maintain and service post pounders and hole augers
  – operate, maintain and service basic hand and/or shop tools
  – operate, maintain and service basic equipment and vehicle-servicing tools
  – operate, maintain and service air compressors and accessories
• safely operate, maintain and service general farm trucks and tractors, including:
  – operate, maintain and service farm tractors
  – know farm truck road travel regulations
  – operate, maintain and service two-axle farm trucks
  – operate, maintain and service trucks with equipment in tow
  – operate, maintain and service three-axle farm trucks