COURSE OTH9918: SWINE 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 Swine Production Technician specialization.)

Description: Students demonstrate the ability to ensure biosecurity, manage barn environment, prepare the facility for farrowing, maintain equipment to provide proper nutrition to swine, commit to workplace safety, and communicate and interact effectively with others.

Parameters: Each of the three courses that constitute the Swine 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 operations
  - 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 swine traceability requirements

• ensure biosecurity, including:
  - practise pig-free days (in accordance with operational guidelines)
  - record visitor and employee logs
  - shower in/out
  - change into dedicated clothes and footwear
  - follow tool and equipment protocols
  - follow quarantine protocols on new animal stock
  - follow protocols for disposal of mortalities

• manage barn environment, including:
  - keep the facility clean
  - remove manure
  - pressure-wash rooms
  - disinfect rooms
  - monitor temperature and air quality within set points
  - monitor water distribution systems
  - manage barn equipment and tools
  - control rodents and pests
  - empty manure pits
  - keep loading facilities in excellent condition

• prepare the facility for farrowing and adjust farrowing room/barn temperature

• provide proper nutrition to swine, including:
  - distribute rations to bins
  - monitor feeding system equipment
  - control spillage in feeders
  - monitor water flow rates
  - feed intake

**COURSE OTH9919: SWINE 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 Swine Production Technician specialization.)*

**Description:** Students demonstrate the ability to manage production, farrow sows, manage the nursery, communicate and interact effectively with others, and utilize career and time management techniques.
Parameters: Each of the three courses that constitute the Swine 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:

- manage production, including:
  - wean litter
  - stimulate sows and gilts to come into estrus
  - cull sows
  - breed (AI and natural) according to protocol
  - record breeding information
  - manage gilt pool and sow cohorts
  - manage an in-house boar stud
  - maintain boar health
  - test for pregnancy and cull, as required
  - monitor gestating sows
  - vaccinate sows
  - move sows to farrowing room and observe sow behaviour during labour

- farrow sows, including:
  - monitor sow and piglet during farrowing
  - assist farrowing
  - recognize farrowing problems
  - process piglets according to protocol
  - cross-foster baby pigs
  - record sow/litter information
  - castrate baby pigs
  - monitor lactation sows’ feed intake
  - monitor and manage litter health and comfort
  - introduce creep feeding
  - cull sows

- manage the nursery, including:
  - prepare the nursery for pigs
  - follow the nursery feeding routine
  - provide water to nursery pigs
  - group weaners by size, sex and age
  - monitor atypical pig behaviour
  - identify illness and treat nursery pigs according to symptoms
  - determine weaner pig behaviour

- utilize career and time management techniques, including:
  - show commitment to ongoing training/education
  - understand the goals of the Green Certificate Program
COURSE OTH9920: SWINE 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 Swine Production Technician specialization.)

Description: Students demonstrate the ability to monitor animal health, detect estrus, induce sows, provide proper nutrition, manage growers and finishers, communicate and interact effectively with others, and utilize career and time management techniques.

Parameters: Each of the three courses that constitute the Swine 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:

- monitor animal health, including:
  - perform standard animal health protocols
  - recognize the atypical animal
  - identify pig diseases
  - treat symptoms of pig diseases
  - follow CQA program guidelines
  - euthanize according to protocol
  - remove and dispose of mortalities
- describe stages of estrus and detect a sow/gilt in standing heat
- induce sows to farrow
- provide proper nutrition, including:
  - calculate feed consumption rates
  - ensure medications are properly labelled and stored
  - send feed and water sample for testing
- manage growers and finishers, including:
  - receive animals according to barn protocols
  - move pigs safely, efficiently and effectively, minimizing animal stress
  - identify animals (i.e., tattoo)
  - record pig number and type
  - monitor for atypical pig behaviour
  - treat grower/finisher and atypical pigs
  - follow treatment protocol according to CQA
  - ensure constant fresh water supply
  - ensure proper feed rations are delivered
  - change rations according to age and weight using barn protocol
  - weigh and sort pigs by weight
  - forecast growth rate
  - book shipment date and time, and schedule a truck