
BEE KEEPER PRODUCTION TECHNICIAN

COURSE OTH9921: BEE 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 Bee Keeper Production Technician specialization.)

Description: Students are introduced to the basic biology and behaviour of bees; study pollination requirements; receive and install package bees; maintain hive equipment, schedule production season activities and comply with government regulations; manage wildlife, vandals and minimize pesticide damage; safely operate and maintain farm trucks, trailers and accessories; demonstrate a positive attitude toward safety; and demonstrate effective and appropriate employability skills.

Parameters: Each of the three courses that constitute the Bee Keeper 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 the ability to handle bees, including:
 - identify and interpret bee behaviour
 - receive and install bees
- demonstrate the ability to:
 - maintain hive equipment
 - schedule production season activities
 - describe the basic biology of bees
 - explain pollination requirements
 - describe government regulations
 - manage wildlife and vandals
 - minimize pesticide damage
- service, safely and appropriately, general farm equipment, including:
 - service trucks and tractors
 - service trailers and towing equipment

- operate trucks and tractors under specified conditions:
 - in yards
 - on fields
 - on farm and public roads
- demonstrate a positive attitude toward safety and safe work skills and habits, including:
 - demonstrate hazard identification and safety incident prevention
 - demonstrate fire safety
 - perform farm first aid
- demonstrate effective and appropriate employability skills

COURSE OTH9922: BEE PRODUCTION 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 Bee Keeper Production Technician specialization.)

Description: Students demonstrate their ability to perform routine field work with colonies, queens and cells; feed bees sugar and protein; control parasitic mites; prevent blood diseases and nosema disease; operate and maintain forklifts, boom trucks and power tail gates under specified conditions; and demonstrate effective and appropriate employability skills.

Parameters: Each of the three courses that constitute the Bee Keeper 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 the ability to perform routine field work, including:
 - work with bee colonies
 - work with queens and cells
 - feed bees sugar and protein
- demonstrate the ability to maintain bee health, including:
 - prevent blood diseases
 - prevent nosema disease
 - control parasitic mites
- operate trucks and tractors under specified conditions, including:
 - operate and maintain forklifts
 - operate and maintain boom trucks
 - operate and maintain power tail gates
 - understand farm truck travel regulations

- demonstrate a positive attitude toward safety and safe work skills and habits, including:
 - demonstrate hazard identification and safety incident prevention
 - demonstrate fire safety
 - perform farm first aid
- demonstrate effective and appropriate employability skills

COURSE OTH9923: BEE 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 Bee Keeper Production Technician specialization.)

Description: Students demonstrate the ability to plan the winter and spring season; prepare for winter and complete related activities; use integrated pest management (IPM) strategies; describe the functions and design of buildings; describe bee specialty enterprises; safely operate and maintain hand tools and power tools; and demonstrate effective and appropriate employability skills.

Parameters: Each of the three courses that constitute the Bee Keeper 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 the ability to maintain beekeeping operations, including:
 - prepare for winter and complete related activities
 - plan the winter and spring season operations
 - use IPM strategies
 - extract honey and handle wax
 - describe bee specialty enterprises
 - describe functions and design of buildings
- demonstrate safe operation, care for and maintenance of small tools and accessories, including:
 - operate and maintain hand and power tools
 - operate and maintain bench and portable grinders
 - operate and maintain tanks, pumps, taps and fillers
 - operate and maintain scales, drum carts, hive tools, scratchers and embedders
 - operate and maintain smokers, blowers, fume boards, pressure washers and weed whackers
- operate trucks and tractors under specified conditions, and select and use battery and tire maintenance tools
- demonstrate a positive attitude toward safety and safe work skills and habits, including:
 - demonstrate hazard identification and safety incident prevention
 - handle hazardous farm materials safely

- demonstrate fire safety
 - perform farm first aid
- demonstrate effective and appropriate employability skills