COURSE OTH9930: POULTRY 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 Poultry Production Technician specialization.)

Description: Students demonstrate knowledge of poultry industry structure; demonstrate knowledge of bird biology; demonstrate knowledge of animal welfare; 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 Poultry 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 poultry traceability requirements

- demonstrate knowledge of industry structure, including:
  - understand poultry terminology
  - understand poultry supply management and supply chain
  - understand genetic stocks
  - understand poultry production standards and global poultry production
  - understand the history of poultry production

- demonstrate knowledge of bird biology, including:
  - identify the external anatomy of the bird
  - describe the digestive system
  - describe the reproductive system
  - describe the development and structure of the egg
  - describe egg embryonic development
  - describe the respiratory system
  - understand thermoregulation
  - describe common diseases

- demonstrate a knowledge of promoting animal welfare, including:
  - define animal welfare
  - understand the five freedoms and be aware of the Code of Practice for the Care and Handling of Hatching Eggs, Breeders, Chickens, and Turkeys
  - demonstrate respect for animals
  - understand poultry treatments
  - recognize signs of birds in distress
  - understand considerations with confined housing

- 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
– understand poultry traceability requirements

COURSE OTH9931: POULTRY 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 Poultry Production Technician specialization.)

Description: Students demonstrate the ability to handle birds; follow biosecurity protocol; prepare the barn and receive chicks and poults; demonstrate knowledge of poultry nutrition; and demonstrate an understanding of barn environmental systems.

Parameters: Each of the three courses that constitute the Poultry 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 birds, including:
  – pick up chicks, poults and adult birds
  – weigh birds
  – vaccinate birds
  – obtain blood samples
  – assess bird health and development
  – euthanize birds and remove dead birds
• follow biosecurity protocol, including:
  – understand the principles of biosecurity
  – manage and maintain the controlled access zone
  – follow pest control procedures
  – follow clothing, footwear, and personal hygiene protocols
  – manage visitors
  – assess bedding storage and handling
  – manage equipment sanitation
• prepare the barn, including:
  – follow biosecurity protocols
  – spread bedding
  – set up scales, feed equipment and watering equipment
  – set up brooding ventilation and brooding lighting
  – set up brooding temperature and humidity
• receive chicks and poults, including:
  – follow biosecurity protocols
  – bring birds into barn and verify the number of birds delivered
– unload chicks/poults from crates and remove empty crates
– allow chicks/poults to adjust to their environment
– assess chick/poult quality
– re-assess the environment and the birds

• know poultry nutrition, including:
  – understand types of poultry rations
  – understand how poultry feed is prepared
  – understand feed restriction

• understand barn environmental systems, including:
  – follow biosecurity protocols
  – understand the ventilation system and the heating/cooling system
  – assess air quality
  – understand the water delivery system and the feed delivery system
  – understand the lighting program
  – understand the alarm system
  – monitor and replace litter

COURSE OTH9933: BROILER HATCHING EGG PRODUCTION HUSBANDRY AND SYSTEMS

Prerequisite: OTH9931: Poultry Processes and Practices 33

Description: Students demonstrate the ability to manage the production cycle for broiler hatching eggs by cleaning and maintaining a facility and preparing the broiler hatching eggs for shipping.

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

• clean and maintain a poultry facility, including:
  – cull any remaining birds
  – dispose of mortality
  – empty feed lines and raise equipment for clean out
  – blow dust from barn and equipment
  – remove litter
  – wash and disinfect the barn and equipment
  – maintain the barn and equipment and supplies
  – clean the service area
  – manage pests
  – check standby power equipment
• prepare for ship out, including:
  – follow biosecurity protocols
  – assist in completing flock information sheets
  – ensure yard accessibility
  – withdraw feed and water
  – prepare flock and equipment for ship out
  – adjust barn conditions for ship out
  – assist with depopulation

• manage production for broiler hatching eggs, including:
  – follow biosecurity protocols and industry programs
  – assist in preparation and recording of flock data
  – clean and maintain service areas
  – manage barn environment
  – manage feed
  – manage water
  – manage litter
  – manage lighting
  – manage equipment
  – manage computer and alarm systems
  – manage health and welfare of flock
  – collect and document abnormal birds
  – collect and document mortality
  – dispose of culls and mortality
  – obtain and record body weights
  – assist moving birds to grow-out barns
  – manage brooding and growing
  – transfer pullets and cockerels to breeding barn
  – manage flock past peak production
  – understand egg production problems
  – understand hatchability problems
  – handle eggs
  – clean and maintain egg packer
  – assist with vaccinations
  – communicate issues to management