
IRRIGATED FIELD CROP PRODUCTION TECHNICIAN

COURSE: IRRIGATION PROCESSES AND PRACTICES 33

Corequisite: CTR1210: Personal Safety (Management)

Note: Students are required to complete the corequisite course prior to or concurrent with their enrollment in the first course of the Irrigated Field Crop Production Technician specialization.

Description: Students demonstrate the ability to handle, operate and maintain irrigation equipment according to a farm's protocol and following related legislation; prepare and secure piped systems for winter storage; care for crops by identifying signs of pests, disorders and diseases; demonstrate a working knowledge of a farm's marketing plan; demonstrate a positive attitude toward safety; and demonstrate effective and appropriate employability skills.

Parameters: Each of the three courses that constitute the Irrigated Field Crop 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 policy.

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

- demonstrate the ability to handle, operate and maintain irrigation equipment, by:
 - demonstrating health and safety knowledge relating to irrigation systems
 - performing preseason irrigation system checks
 - maintaining the water supply system
 - describing irrigation regulations and by-laws
 - describing farm crop plans
 - operating wheel move systems
 - operating a pivot system
 - operating a water pumping system
 - monitoring irrigation systems
 - preparing and securing piped systems for winter storage

- care for crops, by:
 - identifying signs of pest damage in grain crop fields
 - identifying signs of diseases and disorders in grain crop fields
- demonstrate a working knowledge of the farm’s marketing plan or program
- demonstrate a positive attitude toward safety, including:
 - farm equipment safety
 - safe work habits
- demonstrate effective and appropriate employability skills.

COURSE: FIELD AND CROP PREPARATION 33

Corequisite: CTR1210: Personal Safety (Management)

Note: Students are required to complete the corequisite course prior to or concurrent with their enrollment in the first course of the Irrigated Field Crop Production Technician specialization.

Description: Students demonstrate the ability to perform planting activities, by understanding a farm’s cropping program, following regulations and operating farm equipment, including cultivators, fertilizer applicators, trucks, tractors and towed implements; use basic servicing tools; demonstrate crop care, by identifying weed infestations and minimizing the introduction and spread of weeds; demonstrate farm safety, including emergency first aid and knowledge of components of fire; and demonstrate effective and appropriate employability skills.

Parameters: Each of the three courses that constitute the Irrigated Field Crop 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 policy.

Prescribed General Outcomes: *The student will:*

- demonstrate the ability to perform planting activities, by:
 - understanding the farm’s cropping program
 - demonstrating knowledge of farm vehicle operation regulations
 - operating farm vehicles
 - maintaining tractors
 - operating loading equipment
 - operating one-tonne trucks
 - towing trailers, wagons and other farm vehicles
 - using basic servicing tools
 - operating cultivation implements
 - servicing seeding machines
 - operating fertilizer applicators
 - storing seeding equipment

- demonstrate crop care, including:
 - identifying weed infestations
 - minimizing the introduction and spread of weeds
- demonstrate safety practices, including:
 - performing emergency first aid
 - demonstrating knowledge of components of fire
- demonstrate effective and appropriate employability skills.

COURSE: **FIELD CROP AND FORAGE HARVESTING 33**

Corequisite: CTR1210: Personal Safety (Management)

Note: Students are required to complete the corequisite course prior to or concurrent with their enrollment in the first course of the Irrigated Field Crop Production Technician specialization.

Description: Students demonstrate the ability to operate a grain auger, harvest grain and forage crops, operate a swather, operate a combine, store a grain harvest, prepare crop storage facilities, and demonstrate effective and appropriate employability skills.

Parameters: Each of the three courses that constitute the Irrigated Field Crop 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 policy.

**Prescribed
General Outcomes:**

The student will:

- demonstrate the ability to operate a grain auger
- harvest grain crops, by:
 - operating a swather
 - determining moisture levels
 - demonstrating knowledge of combine operations
 - operating a combine
 - storing grain harvesting equipment
 - preparing crop storage facilities for harvest
- harvest forage crops, by:
 - operating hay-cutting equipment, as available
 - operating a forage harvester, as available
 - operating a square baler, as available
 - operating a round baler, as available
 - operating a hay rake, as available
 - operating bale collection equipment, as available
 - preparing forage crop harvesting equipment for storage
 - preparing forage crop storage facilities for harvest
 - packing bunker silage, as necessary
 - operating a silage dump wagon, as necessary
 - operating forage additive application equipment
- demonstrate effective and appropriate employability skills.

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