Horticultural Technician (Apprenticeship)

College Certificate
24 Weeks
Ottawa Campus

Academic Year: 2019/2020
Program Code: 1411X01FWO

Our Program

Become a journeyperson in the horticultural industry.

This apprenticeship program is designed to provide individuals working in the industry, who want to pursue a career in horticulture, with theoretical principles and practical trade skills developed by industry to become a recognized horticultural technician. The program fulfills the on-the-job and in-school requirements of the Ministry of Training, Colleges and Universities (MTCU) and the Ontario College of Trades (OCOT), and supports apprentices in completing their Red Seal Certificate of Qualification exam to become a Landscape Horticulturist.

Applicants to the Horticulture College Certificate program must:

- be currently employed in the trade
- be formally registered as apprentices with the Ministry of Training, Colleges and Universities (MTCU)
- have a valid Offer of Classroom Training from the MTCU that includes a Ministry Client ID and approved Class Number

If you are considering a future as a Horticultural Technician, you may work with green infrastructure on private, commercial or government properties. Opportunities exist in all parts of the industry from production and maintenance to landscape installation, retail and supply firms. Graduates may also become self-employed.

Learn more about apprenticeships. Visit http://www.earnwhileyoulearn.ca/ for detailed information.

For Registered Apprentices:
The in-school portion of the program consists of two 12-week sessions (Basic and Advanced). Students take courses in workplace safety, plant maintenance and identification, landscape construction, quote preparation, equipment maintenance, irrigation and turf management.

SUCCESS FACTORS

This program is well-suited for apprentices who:

- Enjoy a hands-on approach to learning about horticulture and the natural environment.
- Are self-motivated.
- Enjoy problem solving and are attentive to details and safety.

Employment

Graduates may be employed as horticultural technicians working with green infrastructure on private, commercial or government properties. Opportunities exist in all parts of the industry from production and maintenance to landscape installation, retail and supply firms. Graduates may also become self-employed.

Program of Study
### Level: 01

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<td>HOR0561 Workplace Safety</td>
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<td>HOR0563 Plant Science</td>
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<td>HOR0564 Turf Management 1</td>
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<td>HOR0565 Plant Identification 1</td>
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<td>HOR0566 Plant Materials 1</td>
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<td>HOR0567 Trade Calculations</td>
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<td>HOR0568 Landscape Construction 1</td>
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<td>HOR0569 Integrated Pest Management and Plant Health Care</td>
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<td>HOR0570 Landscape Equipment Maintenance</td>
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<td>HOR0571 First Aid and CPR Training</td>
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<td>HOR0576 Plant Identification 2</td>
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<td>HOR0578 Site Layout, Grading and Surveying</td>
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<td>HOR0579 Landscape Construction 2</td>
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<td>HOR0580 Plan Reading and Quantity Take-Off, Quote Preparation</td>
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### Fees for the 2019/2020 Academic Year

Tuition Fees: $600 per level.

Incidental Fee: $150 per level.

Information Technology Fee: $65.79 per level.

### Admission Requirements for the 2020/2021 Academic Year

**Program Eligibility**

- Eligibility is determined by the Ministry of Training, Colleges and Universities.
- Applicants must be formally registered as apprentices and be released by their sponsor to attend the College.

### Admission Requirements for 2019/2020 Academic Year

**Program Eligibility**

- Eligibility is determined by the Ministry of Advanced Education and Skills Development.
- Applicants must be formally registered as apprentices and be released by their sponsor to attend the College.

### Application Information

**HORTICULTURAL TECHNICIAN (APPRENTICESHIP)**

Program Code 1411X01FWO

Registration for Apprenticeship programs takes place through the Ministry of Training, Colleges and Universities, Employment Ontario. For further information, contact:
Horticultural Technician (Apprenticeship)

Ministry of Training, Colleges and Universities
Employment and Training
Division 347 Preston Street 3rd Floor, Suite 310
Ottawa, ON K1S 3H8

https://www.ontario.ca/page/start-apprenticeship
Telephone: 613-731-7100
Toll-free: 1-877-221-1220

Additional Information
For more information, please contact Tommy Wingreen, Program Coordinator, at 613-727-4723 ext. 7138 or wingret@algonquincollege.com or Steve Neumann, Summer Program Coordinator at 613-727-4723 ext. 7034 or neumans@algonquincollege.com.

Course Descriptions

ENL0562 Workplace Communications
Students describe and demonstrate the oral and written communication skills required to function effectively as part of a crew/team in the workplace using traditional and current technology.
Prerequisite(s): none
Corerequisite(s): none

HOR0561 Workplace Safety
Students describe and demonstrate safe workplace practices, including dealing with on-site conditions, emergencies and hazards, according to pertinent federal and provincial safety legislation and municipal legal requirements.
Prerequisite(s): none
Corerequisite(s): none

HOR0563 Plant Science
Students describe plant biology, soil structure and quality, plant-media relationships, nutrient composition and the relationship to plant performance in its environment.
Prerequisite(s): none
Corerequisite(s): none

HOR0564 Turf Management 1
Students describe and demonstrate turf grass mowing and fertilizing practices, including monitoring turf grass quality, plant health care, and Integrated Pest Management (IPM) techniques, according to federal, provincial and municipal legal requirements.
Prerequisite(s): none
Corerequisite(s): none

HOR0565 Plant Identification 1
Students identify 80 ornamental landscape plants (See Ontario 2009 Plant List), using the required nomenclature, stating the cultural requirements for each and identifying pests and diseases as they relate to plant selection.
Prerequisite(s): none
Corerequisite(s): none

HOR0566 Plant Materials 1
Students describe grounds maintenance practices and procedures, including basic installation and
transplanting processes for nursery stock, such as annuals, woody and herbaceous plants, according to respective federal, provincial, and municipal legal requirements.

**HOR0567 Trade Calculations**
Students identify, explain and demonstrate calculations used in the horticulture industry, including the use of standard measuring devices.

Prerequisite(s): none
Corequisite(s): none

**HOR0568 Landscape Construction 1**
Students describe and demonstrate the handling and installation of precast landscape paving, wall units and landscape timber wall components, according to pertinent safety legislation and safe workplace practices, municipal standards and codes.

Prerequisite(s): none
Corequisite(s): none

**HOR0569 Integrated Pest Management and Plant Health Care**
Students identify and describe management of pests and disorders of plant material (turf, trees, interior plants, greenhouse plants, perennials/annuals), utilizing plant health care and integrated pest management principles.

Prerequisite(s): none
Corequisite(s): none

**HOR0570 Landscape Equipment Maintenance**
Students describe and demonstrate basic scheduled, preventative and ongoing maintenance procedures for powered horticultural equipment, according to respective federal, provincial and municipal legal requirements.

Prerequisite(s): none
Corequisite(s): none

**HOR0571 First Aid and CPR Training**
Students describe the application of first aid and CPR techniques for emergencies in the workplace. This unit comprises the standard First Aid certification requirements.

Prerequisite(s): none
Corequisite(s): none

**HOR0572 Plant Propagation**
Students describe and demonstrate plant propagation by sexual and asexual methods.

Prerequisite(s): none
Corequisite(s): none

**HOR0573 Plant Production**
Students describe plant production from growing, potting/lining out to sale/installation on site, according to respective federal, provincial and municipal legal requirements.
HOR0574 Irrigation
Students describe water quality, plant water requirements and local conservation standards, water stewardship principles, basic irrigation systems and procedures, according to federal, provincial and municipal legal requirements.
Prerequisite(s): none
Corequisite(s): none

HOR0575 Turf Management 2
Students describe turf grass establishment and cultivation practices, including monitoring turf grass quality, plant health care, Integrated Pest Management (IPM) techniques used in landscape construction (Softscape Installation) and grounds/golf course maintenance operations, according to respective federal provincial and municipal legal requirements.
Prerequisite(s): HOR0565
Corequisite(s): none

HOR0576 Plant Identification 2
Students identify and describe 120 ornamental landscape plants (See Ontario 2009 Plant List) using the required nomenclature, stating the cultural requirements for each and understanding pest and disease as they relate to plant selection.
Prerequisite(s): HOR0565
Corequisite(s): none

HOR0577 Plant Materials 2
Students describe and demonstrate field digging and transplanting techniques, including transporting, aftercare and pruning techniques for nursery stock such as annuals, woody and herbaceous plants, according to respective federal provincial and municipal legal requirements.
Prerequisite(s): HOR0566
Corequisite(s): none

HOR0578 Site Layout, Grading and Surveying
Students describe an environmentally-sensitive site layout and drainage, including the placement and use of grading control devices, measuring devices and surveying equipment.
Prerequisite(s): none
Corequisite(s): none

HOR0579 Landscape Construction 2
Students describe and demonstrate the handling and installation of precast landscape paving, wall units and landscape timber wall components, according to pertinent safety legislation and safe workplace practices, municipal standards and codes.
Prerequisite(s): HOR0568
Corequisite(s): none

HOR0580 Plan Reading and Quantity Take-Off, Quote Preparation
Students read and interpret plans, verify plan accuracy and determine equipment, materials and labour requirements to prepare a quote.
Prerequisite(s): none
Corequisite(s): none