

Archived: October 11, 2018

## Trades and Applied Technology Programs

# Horticultural Technician Foundation

**Location Offered:**

Nanaimo

**Credential:**

Certificate

**Program Length:**

9 Months

## The Program

The curriculum of this one-year horticultural foundation program has been designed to provide students with a thorough understanding of horticultural principles and practices. The program covers a broad spectrum of horticultural practices including plant propagation techniques, greenhouse production, nursery crop production, landscape design, landscape construction, and plant identification. As well, pest and disease management, pruning techniques, and maintenance practices are investigated. Throughout the program, special emphasis will be placed on many aspects of sustainable horticultural practices.

The curriculum used in this program meets the provincial standards set for all one-year horticulture foundation programs.

Approximately 50% of the program will be spent in actual “hands-on” training on- and off-campus. This includes three months working in the industry.

The program is taught at the G.R. Paine Horticulture Centre, on a 5-acre site near the Nanaimo campus. The site contains a “Harnoise Nordique” style greenhouse, a headerhouse, a classroom and lab facility, as well as a containerized nursery. Students also practice their skills at the Milner Gardens and Woodland, in Qualicum, a garden estate environment where they participate in the day-to-day, season-to-season operational activities.

## Program Outline

| <b>Spring Semester</b>                                       | <b>Credits</b> |
|--|----------------|
| HORT 100T - (Greenhouse Environment and Control)             | 2              |
| HORT 110T - (Horticultural Botany)                           | 1              |
| HORT 115T - (Introductory Plant Identification)              | 2              |
| HORT 125T - (Landscape Maintenance and Turfgrass Management) | 2              |
| HORT 130T - (Landscape Construction Techniques)              | 2              |
| HORT 135T - (Greenhouse Production)                          | 2              |
| HORT 140T - (Practicum I)                                    | 1.5            |
| HORT 145T - (Field Trips I)                                  | 1              |
| HORT 160T - (Horticultural Skills and Practices)             | 3              |
| <b>Semester Credits</b>                                      | <b>16.5</b>    |

| <b>Fall Semester</b>                             | <b>Credits</b> |
|--|----------------|
| HORT 101T - (Plant Propagation)                  | 2              |
| HORT 112T - (Pest Management and Weed Control)   | 3              |
| HORT 116T - (Advanced Plant Identification)      | 2              |
| HORT 120T - (Irrigation Systems and Design)      | 2              |
| HORT 131T - (Landscape Design Techniques)        | 3              |
| HORT 132T - (Estimating and Business Practices)  | 1.5            |
| HORT 141T - (Work Experience)                    | 2              |
| HORT 146T - (Field Trips II)                     | 1              |
| HORT 150T - (Soils and Growing Media)            | 2              |
| HORT 161T - (Horticultural Skills and Practices) | 2              |
| <b>Semester Credits</b>                          | <b>20.5</b>    |

*All program courses must be successfully completed before certificates will be issued.*

## **Admission Requirements**

- General Trades admission requirements apply.
- English 12 with minimum “C” grade, or equivalent, or successful completion of English assessment test.
- Minimum “C” grade in one of Principles of Mathematics 11, Applications of Mathematics 11, Foundations of Mathematics 11, Apprenticeship and Workplace Mathematics 11, or successful completion of assessment test.
- Letter, at time of application, indicating reasons for applying to the program and outlining any previous horticultural experience, as well as future career goals.
- Interview.
- Fitness required to participate in physical aspects of the program and industry.

### **Notes on Admission**

- Availability and willingness to participate in plant roster duty on weekends.
- Previous experience in commercial or industrial horticulture is recommended.
- Successful candidates will be selected from qualified applicants on the basis of the personal statement and outcome of the personal interview. Phone interviews may be arranged for out-of-province applicants.

### **Notes on Completion Requirements**

- A Pesticide Applicator’s Certificate must be completed prior to graduation.
- An Occupational Level I First Aid Certificate must be completed prior to graduation.

## **Career Opportunities**

Graduates of this program may find employment in the following industries:

- landscape maintenance and installation companies;
- municipal and regional Parks Departments.
- floriculture and vegetable greenhouse operations;
- ornamental and forest seedling nurseries;
- garden centres and horticultural retail outlets;
- landscape design firms;
- turf enterprises;
- golf courses;

- horticultural supply companies;
- irrigation design and installation firms;
- arborist assistant;
- small scale agriculture;
- community supported agriculture.

Successful completion of this program enables graduates to continue their studies in Apprenticeship or a two-year Diploma program at Kwantlen Polytechnic University in Langley.

## **Start Date and Application Deadline**

Applications are accepted on an ongoing basis. For further information regarding next available program start dates, applications, and program contacts check the Program Availability List.

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