

## HIGHER NITEC IN LANDSCAPE MANAGEMENT & DESIGN

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### MODULE OBJECTIVES

#### Core Modules

##### **Nursery Production**

On completion of the module, students should be able to perform management and maintenance works in a plant production nursery. They should also be able to perform tasks such as re-potting, propagation, harvesting, and maintenance of nursery facilities and customer service. In addition, students should be able to perform identification of plant pests and diseases.

##### **Arboriculture Operations**

On completion of the module, students should be able to perform basic tree structural safety inspection and tree health inspection. They should be able to assist in the supervision of tree maintenance works including planting, transplanting, pruning, removal, selection, establishment and the implementation of maintenance plan for arboriculture equipment and tools.

##### **Sports Turf Operations**

On completion of the module, students should be able to supervise the installation, maintenance and first line troubleshooting of drainage and irrigation systems in turf areas on golf courses and sports turf. They should also be able to perform integrated pest management program including pests, diseases, disorders and soil analysis. In addition, they should be able to identify the appropriate materials, tools and equipment for turf maintenance, and supervise the implementation of turf nutrition plan and maintenance plan for common turf areas.

##### **Landscape Operations**

On completion of the module, students should be able to supervise the maintenance and implementation of various landscape operations including softscapes, landscape features and facilities. In addition, they should be able to supervise the operation and maintenance of basic landscape machinery and equipment.

##### **Landscape Design and Skyrise Greenery**

On completion of the module, students should be able to assist in designing sustainable, themed and cultural landscapes with spatial planning, and prepare site layout. In addition, students should be able assist in designing, managing, installation and maintenance of skyrise greenery.

##### **Landscape Project Management and Coordination**

On completion of the module, students should be able to interpret landscape maintenance contract specifications and drawings, assist in the implementation of procurement plans and project schedules. In addition, students should be able to supervise environmental control measures and verify as-built drawings on site.

##### **Horticulture Sciences and Parks Practices**

On completion of the module, students should be able to apply the fundamental knowledge of plant anatomy, morphology, taxonomy and nutrition, and soil science to analyse and identify the common plant healthcare issues. Students should be able to supervise the implementation of sustainable horticulture practices, suitable soil amendments, plant healthcare and integrated pest management plans in accordance to horticulture and landscape industry requirements. In addition, students should be able to assist in the managing of Parks recreation, events and visitor-ship, and supervise the implementation of Parks maintenance contracts.

##### **Industry Attachment**

Students will undergo 3 months of internship training in landscaping construction and maintenance companies to reinforce the skills and knowledge acquired at the training institute and to develop competencies in other specialized areas.

## **Electives (Course Specific)**

### **Elementary Land Surveying**

On completion of the module, students should be able to perform a site survey using basic surveying equipment. Students will be able to set up and use the surveying equipment, conduct a closed survey and verify basic survey plan to incorporate levels and contours according to landscape specifications.

## **Electives (Inter-disciplinary)**

### **Water Efficiency in Building**

On completion of the module, students should be able to conduct water audit and apply water efficiency measures to reduce water consumption in commercial/residential buildings.

### **Green Building Technology**

On completion of the module, students would be equipped with the fundamental skills and knowledge of green building technologies and design, and incorporate environment- friendly features in building facility design.