## **MODULE OBJECTIVES**

### Module 1: Plant Curation & Inventory

On completion of the module, trainees should be able to perform plant curation and inventory, as well as to manage selection of indoors and outdoors plants.

#### Module 2: Arboriculture Operations & Maintenance

On completion of the module, trainees should be able to manage arboriculture operations and maintenance including tree assessment, pruning, installation, transplanting and removal, as well as managing implementation of tree health management programmes.

#### Module 3: Plant Health Management

On completion of the module, trainees should be able to diagnose plant health disorders, determine common plant diseases and pests, develop plant health management programme, as well as managing implementation of IPM to treat plant disorder.

#### Module 4: Soil Science & Amelioration

On completion of the module, trainees should be able to perform soil and media testing and analysis, implement measures to improve soil conditions, as well as preparing growing media on site for planting.

#### Module 5: Landscape Project Development

On completion of the module, trainees should be able to manage development of landscape projects such as developing environmental management plan for worksite, tree conservation and protection plans, landscape project plan, as well as plant water management plan.

#### Module 6: Horticulture Operations & Maintenance

On completion of the module, trainees should be able to manage arboriculture operations and maintenance such as managing plant propagation, implementing horticultural maintenance programme and managing maintenance of landscape equipment and machinery.

#### Module 7: Biophilic Landscaping Management

On completion of the module, trainees should be able to develop plans for sustainable biophilic landscape programme, implement sustainable biophilic landscape programme, and manage maintenance of skyrise greenery and park facilities in accordance with landscape practices and statutory requirements.

## Module 8: Landscape Project Management

On completion of the module, trainees should be able to interpret contract documents, manage landscape project, irrigation and drainage systems, as well as implementing tree conservation and protection plans for development works.

## Module 9: Company Project

On completion of the module, trainees should have applied their acquired competencies in an authentic project that would value-add to the company.

## Module 10: On-the-Job Training

On completion of the module, trainees should be able to apply the skills and knowledge acquired at ITE College and workplace to take on the full job scope, including supervisory function where appropriate, at the company.

# **OJT LIST OF COMPETENCIES**

Course Title: Arboriculture & Horticulture Level: Work-Study Diploma

E: Manage horticulture operations & maintenance         41.       Manage maintenance of landscape equipment and machinery         42.       Implement horticultural maintenance programme         43.       Manage plant propagation         F: Manage biophilic landscaping programme         44.       Develop plan for sustainable biophilic landscape programme         45.       Implement sustainable biophilic landscape programme         46.       Manage construction and maintenance of green wall and green roof         47.       Manage construction and maintenance of Park Facilities         G: Manage development of landscape projects         48.       Develop environmental management plan for worksite         9.       Develop tree conservation and protection plans for development works         50.       Develop landscape project plan         51.       Develop irrigation and drainage plans (including water saving & water demand for irrigation system)         H: Manage implementation of landscape projects         52.       Manage landscape project         53.       Manage irrigation and drainage systems         54.       Implement tree conservation and protection plans for development works	S/N	List of Competencies (Standard)	
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<ul> <li>54. Implement tree conservation and protection plans for developme works</li> </ul>	52.	Manage landscape project	
54. Implement tree conservation and protection plans for developme works	53.	Manage irrigation and drainage systems	
	54.	Implement tree conservation and protection plans for development	
	55.	Construct garden hardscapes	