

Specification of Competency Standards
for the Arboriculture & Horticulture Industry
Unit of Competency

Functional Area - Plant Selection, Cultivation and Propagation

Title	Evaluate the planting environment
Code	109068L4
Range	This unit of competency is applicable to managers who are engaged in planting work in the arboriculture and horticulture industry. Practitioners should be capable of mastering the techniques for analysing the data of the planting environment, integrating various environmental data and evaluating the planting sites.
Level	4
Credit	4 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge related to evaluating the planting environment</p> <ul style="list-style-type: none"> • Comprehend the working procedures for evaluating the planting environment • Comprehend the growth conditions required by different plant species • Master the skills for analysing various environmental data • Comprehend the environmental factors that affect the planting plans, such as the type of soil, thickness of soil, humus content, pH value, lighting duration, water source and nutrients <p>2. Evaluate the planting environment</p> <ul style="list-style-type: none"> • Inspect the types and maturity of existing vegetation on-site • Analyse the collected environmental data and existing vegetation information, such as soil structure and characteristics, growth space above and below ground, drainage capacity, prevailing wind, microclimate and sunlight • Assess the plant species that are suitable for growing in the planting areas according to the analysis results • Provide suggestions and measures to improve the planting environment • Write evaluation reports on the planting sites and report to the project leaders
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Able to analyse the environmental data of the planting sites, so as to assess the plant species that are suitable for growing on the sites; and • Able to suggest measures to improve the planting environment and write evaluation reports on the planting sites, so as to improve the relevant environmental factors to meet the planting needs.
Remark	