

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

Functional Area - Diagnosis and Treatment of Pests and Diseases

Title	Evaluate the effectiveness of pest and disease control operations
Code	109131L5
Range	This unit of competency is applicable to technical personnel who are engaged in assessment work in the arboriculture and horticulture industry. Practitioners should be capable of identifying the responses of the diseased plants to the pesticides applied and their health conditions according to the information collected on-site, so as to make analyses, evaluating the effectiveness of the pest and disease control operations.
Level	5
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge related to evaluating the effectiveness of pest and disease control operations</p> <ul style="list-style-type: none"> • Comprehend the types, characteristics, causes and modes of transmission of common pests and diseases of plants • Comprehend the characteristics and implementation measures of the integrated management of pests and diseases of plants, such as physical control, chemical control, biological control and integrated pest management (IPM) • Comprehend the objectives and content of the work plans for pest and disease control operations • Comprehend the methods and industry standards for evaluating the effectiveness of pest and disease control operations • Comprehend the government legislation and regulations related to pest and disease control operations <p>2. Evaluate the effectiveness of pest and disease control operations</p> <ul style="list-style-type: none"> • Observe the plants affected by pests or diseases on-site, and record the progress and results of the pest and disease control operations according to the list of evaluation items • Identify the responses of the diseased plants to the pesticides applied and their health conditions, and record the relevant results • Ask staff for details about the implementation of the pest and disease control operations to obtain information in a comprehensive manner, so as to make more accurate judgments • Analyse the information obtained through observation and the information collected to evaluate the effectiveness of the pest and disease control operations • Prepare evaluation reports to explain the implementation of the pest and disease control work plans and their actual effectiveness <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Give suggestions to improve the corresponding measures, so as to optimise the current pest and disease control operations in accordance with the post-evaluation analysis
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Able to analyse the effectiveness of the pest and disease control measures to improve plant health and put an end to pests and diseases in accordance with the observations made and information collected; and

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	<ul style="list-style-type: none">• Able to evaluate the effectiveness of the pest and disease control operations based on the analysis results, and prepare relevant reports.
Remark	