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

Functional Area - Survey, Inspection and Risk Assessment

Title	Interpret and analyse data obtained with tree inspection instruments
Code	109153L5
Range	This unit of competency is applicable to managers or research personnel who are engaged in tree inspection and risk assessment in the arboriculture and horticulture industry. Practitioners should be capable of applying the expertise, information technology skills and analytical capability in relation to tree inspection instruments and related application software to integrate a wide range of information and data, so as to interpret the data obtained with tree inspection instruments. They should also be able to analyse and assess the internal structural conditions of trees and the overall tree risks.
Level	5
Credit	6 （For Reference Only）
Competency	Performance Requirements 1. Possess knowledge related to interpreting and analysing data obtained with tree inspection instruments • Familiarise with the different procedures and levels of detail of tree inspection • Familiarise with the systematic approaches of tree inspection • Familiarise with the techniques and standards for applying different electronic instruments and related application software to conduct tree inspection • Comprehend the explanation, application, standards and limitations of the images and data output by different tree inspection instruments • Possess knowledge of tree biology, plant physiology, tree mechanics, defects in tree structure, tree health, etc. • Comprehend the pests / diseases and abiotic factors that cause plant and tree disorders 2. Interpret and analyse data obtained with tree inspection instruments • Based on the records and results of the electronic instruments for tree inspection, interpret in detail the scanned images, distribution maps, photos and data obtained with reference to the instructions and standards of the relevant application software • Integrating and comparing related images and data, analyse and interpret the results to assess the internal structural conditions, degree of decay and health conditions of the trees • Consolidate all interpretations and analyses to assess the overall tree risks • Document the interpretation and analysis results so that the responsible personnel can develop corresponding mitigation measures and maintenance plans 3. Exhibit professionalism • Interpret the meaning of the images and data of tree inspection precisely, and provide an accurate analysis of the internal structural conditions of the trees and the overall tree risks • Refer to the latest technologies and applications of tree inspection instruments used locally and overseas to improve the relevant standards of the organisation or the industry
Assessment Criteria	The integrated outcome requirements of this unit of competency are: • Able to effectively apply the expertise in various tree inspection instruments and related application software, and demonstrate the ability to interpret the relevant images and data;

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	- Able to accurately interpret the scanned images and data of tree inspection, and conduct analyses; and - Able to provide a quantifiable assessment on the internal structural conditions and overall risks of the trees.
Remark	