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

Functional Area - Survey, Inspection and Risk Assessment

Title	Analyse the health, structural conditions and hazards of trees
Code	109149L4
Range	This unit of competency is applicable to technical personnel who are engaged in tree inspection and risk assessment in the arboriculture and horticulture industry. Practitioners should be capable of analysing the severity of tree diseases and the potential hazards of trees in accordance with the results of tree inspection and risk assessment, so as to assist in developing suitable risk mitigation measures.
Level	4
Credit	3 （For Reference Only）
Competency	Performance Requirements 1. Possess knowledge related to analysing the health, structural conditions and hazards of trees • Comprehend the results of tree inspection and risk assessment of the responsible projects • Familiarise with the techniques and criteria for carrying out tree risk assessment • Familiarise with the relevant guidelines for tree risk assessment and management • Possess knowledge of tree biology, plant physiology, tree mechanics, defects in tree structure, tree health, and pests and diseases of plants, as well as knowledge of tree maintenance 2. Analyse the health, structural conditions and hazards of trees • Analyse the severity of tree diseases and the mitigation measures in accordance with the results of tree inspection and risk assessment • Analyse the potential hazards, for example, assessment of the probability of collapse of trees or branches, areas where potential risks exist, and the probability of hitting targets upon collapse and the estimated casualties 3. Exhibit professionalism • Interpret the results and data of tree risk assessment precisely, and provide accurate analysis of the health, structural conditions and degree of hazards of the trees
Assessment Criteria	The integrated outcome requirements of this unit of competency are: • Able to use professional knowledge to analyse the health, structural conditions and severity of hazards of trees in accordance with the results of tree inspection and risk assessment; and • Able to analyse the potential hazards of trees and propose corresponding mitigation measures.
Remark	