

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

Functional Area - Occupational Safety and Health for the Arboriculture and Horticulture Industry

Title	Use chemicals
Code	109063L2
Range	This unit of competency is applicable to frontline personnel who are engaged in chemical processing in the arboriculture and horticulture industry. Practitioners should be capable of using, diluting and mixing chemicals safely according to the application plans, as well as implementing corresponding safety protection measures to protect the safety of staff and passers-by.
Level	2
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge related to using chemicals</p> <ul style="list-style-type: none"> • Comprehend the types, formulations and ingredients of chemicals used in arboriculture and horticulture • Comprehend the content and warning system listed on the labels of chemicals, such as hazard classifications and symbols, chemical names, potential hazards, and safety measures • Comprehend the hazards of chemicals posed to health and the environment • Comprehend the procedures, techniques and methods for using, diluting and mixing chemicals in a safe way • Comprehend the types, operation, inspection methods and maintenance of chemical equipment • Comprehend the personal protective equipment that needs to be donned when using chemicals • Comprehend the contingency measures in the event of a chemical accident • Comprehend the safety guidelines and relevant legislation on the use of chemicals • Comprehend the content of the application plans <p>2. Use chemicals</p> <ul style="list-style-type: none"> • Select suitable types and dosages of chemicals and chemical application tools according to the application plans; consult superiors if necessary • Dilute or mix chemicals in a safe environment according to the established guidelines of the organisation • Inspect every part of the chemical equipment to ensure smooth operation and that there is no damage • Inspect the application sites and the surrounding environment to ensure good circulation of air • Select appropriate personal protective equipment according to the toxicity of the chemicals and the types of equipment used • Implement corresponding safety protection measures to protect the safety of staff and passers-by, such as using appropriate barriers to fence the work areas, preventing chemicals from dispersing by wind, erecting warning signs and informing passers-by to stay away from the application areas • Clean all tools, equipment, clothing and other public facilities within the application areas thoroughly <p>3. Exhibit professionalism</p>

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	<ul style="list-style-type: none">• Conduct application safely and cautiously to avoid causing profound impact on health and the environment
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none">• Able to select suitable types and dosages of chemicals, and make use of chemical application tools properly in accordance with the application plans; and• Able to dilute and mix chemicals safely in accordance with the established procedures to meet the requirements of the application plans.
Remark	