

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

Functional Area - Planting, Caring and Management of Plants

Title	Prune trees near overhead lines
Code	109094L3
Range	This unit of competency is applicable to technical personnel who are engaged in tree pruning operations near overhead lines in the arboriculture and horticulture industry. Practitioners should be capable of mastering the operation of the electric power system and the types of overhead lines. They should also be able to use appropriate methods to prune trees near overhead lines according to the locations of the power facilities and trees.
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge related to pruning trees near overhead lines</p> <ul style="list-style-type: none"> <li>• Comprehend the working principles, system structure and basic power safety knowledge of the electric power system</li> <li>• Comprehend the methods of reading electrical wiring diagrams and distribution maps of power supply equipment</li> <li>• Possess knowledge of distinguishing overhead lines with different voltages</li> <li>• Comprehend the working procedures for pruning trees near overhead lines and the safety measures that need to be taken</li> <li>• Possess knowledge of the safe distances between tree pruning operations and power facilities</li> <li>• Comprehend the potential risks and sources of hazards of tree pruning near overhead lines</li> <li>• Comprehend the use of non-conductive tools and protective equipment</li> </ul> <p>2. Prune trees near overhead lines</p> <ul style="list-style-type: none"> <li>• Identify the types of overhead lines, such as low voltage cables, high voltage cables and ultra high voltage cables</li> <li>• Use professional instruments to measure the distances between power facilities and trees to determine the extent of pruning</li> <li>• Study the electrical wiring diagrams and distribution maps of power supply equipment to identify the locations of the power facilities</li> <li>• Establish the safe working zones and fence off the work areas according to the locations of the power facilities and trees</li> <li>• Assess the level of risk of the tree pruning operations near the overhead lines with respect to the types of the overhead lines and the environmental constraints, so as to apply appropriate methods for the tree pruning operations</li> <li>• Use suitable non-conductive tools and personal protective equipment according to the needs of the operations</li> </ul> <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Update the techniques and safety knowledge related to tree pruning near overhead lines regularly</li> </ul>
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>• Able to accurately identify the types of overhead lines to assess the level of risk of the tree pruning operations; and</li> </ul>

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	<ul style="list-style-type: none"><li>• Able to undertake the safety measures before carrying out tree pruning operations near overhead lines and use appropriate methods to prune trees in accordance with the types of overhead lines and the environmental constraints.</li></ul>
Remark	