

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

Functional Area - Planting, Caring and Management of Plants

Title	Install rigging systems
Code	109110L3
Range	This unit of competency is applicable to technical personnel who are engaged in installing rigging systems in the arboriculture and horticulture industry. Practitioners should be capable of mastering the design methods of rigging systems and installing appropriate rigging systems to facilitate tree work in accordance with the job requirements and environmental constraints.
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge related to installing rigging systems</p> <ul style="list-style-type: none"> <li>• Comprehend the design criteria and installation methods of rigging systems</li> <li>• Comprehend the equipment combinations for installing rigging systems and their characteristics</li> <li>• Comprehend the source of hazards during the installation of rigging systems and the corresponding safety measures</li> <li>• Comprehend the safe distances between the areas of falling tree parts and the roads / public facilities</li> <li>• Comprehend the constraints posed by different environment on the installation of rigging systems</li> <li>• Comprehend the methods of using a combination of rope, different rigging and pulleys</li> <li>• Comprehend the methods of establishing a good communication system with support staff</li> </ul> <p>2. Install rigging systems</p> <ul style="list-style-type: none"> <li>• Assess the constraints posed by the site conditions on the installation of the rigging systems</li> <li>• Plan the paths and distances of the rigging systems, fixation points and safe fulcrum positions, and the areas of falling tree parts depending on the job requirements and environmental constraints</li> <li>• Calculate the fulcrum angle and rope tension of the rigging systems, and the force and speed of the falling tree parts</li> <li>• Plan the corresponding safety measures based on the calculation results, such as fencing off work areas and erecting warning signs</li> <li>• Choose the appropriate combination of rope, rigging and pulleys according to the job requirements and characteristics of the equipment</li> <li>• Work with other support staff to use the combination of rope, rigging and pulleys to install the rigging systems</li> <li>• Confirm the safety and efficiency of the rigging systems through testing</li> </ul> <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Take reference to the latest rigging techniques in the industry to continue to optimise the application of the combination of rope, rigging and pulleys</li> </ul>
Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <ul style="list-style-type: none"> <li>• Install appropriate rigging systems and adopt corresponding safety measures to facilitate tree work in accordance with the job requirements and environmental constraints.</li> </ul>

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Remark	
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