

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

Functional Area - Planting, Caring and Management of Plants

Title	Set up and maintain automatic irrigation systems
Code	109117L3
Range	This unit of competency is applicable to technical personnel who are engaged in managing irrigation systems in the arboriculture and horticulture industry. Practitioners should be capable of mastering the working principles and operation methods of automatic irrigation systems. They should also be able to set up and maintain automatic irrigation systems properly.
Level	3
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge related to setting up and maintaining automatic irrigation systems</p> <ul style="list-style-type: none"> • Comprehend the working principles and operation methods of automatic irrigation systems • Comprehend the daily procedures involved in the maintenance of automatic irrigation systems • Comprehend the design concepts and coverage of automatic irrigation systems • Possess knowledge of how to set up automatic irrigation systems • Comprehend the water requirements of different types of plants • Comprehend the operation and maintenance manuals of the automatic irrigation systems <p>2. Set up and maintain automatic irrigation systems</p> <ul style="list-style-type: none"> • Coordinate the installation process of the irrigation systems with suppliers, ensuring that the irrigation areas cover the whole planting areas • Develop irrigation plans, including setting irrigation time, irrigation volume, irrigation frequency, etc. • Inspect sites equipped with automatic irrigation systems regularly to monitor the operation of the systems • Clear the deposit that hinders the operation of the irrigation systems and carry out basic repairing by following the maintenance guidelines • Arrange suppliers to conduct regular inspections of the irrigation systems to ensure the normal operation of the machines
Assessment Criteria	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> • Able to coordinate the installation process of irrigation systems properly and develop corresponding irrigation plans; and • Able to set up and maintain irrigation systems properly to ensure their normal operation.
Remark	