

Modification history

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0.
Release 1	Initial release

AHCNSY301	Maintain nursery plants
Application	<p>This unit of competency describes the skills and knowledge required to monitor and maintain nursery environment, determine water requirements, promote plant growth and complete nursery plant maintenance work.</p> <p>The unit applies to individuals who maintain nursery plants under broad direction and take responsibility for their own work.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Nursery (NSY)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to work	1.1 Determine work requirements from workplace instructions 1.2 Identify potential hazards and risks and implement safe working practices to manage risks 1.3 Select required materials, tools and equipment and check for safe operation 1.4 Select, fit, use and maintain personal protective equipment applicable to the task
2. Monitor and maintain the nursery environment	2.1 Monitor environmental parameters against the needs of the plants 2.2 Alter environmental parameters to meet the needs of nursery plants and market requirements 2.3 Service and repair basic irrigation system components according to operation and maintenance manual
3. Determine daily water requirements	3.1 Determine water requirements according to plant needs and environmental parameters 3.2 Apply water to meet the needs of the plant group 3.3 Monitor plant water requirements
4. Promote plant growth by intervention	4.1 Test production area potting media according to workplace quality specifications 4.2 Monitor plant health 4.3 Undertake plant interventions as required
5. Complete work	5.1 Remove and dispose of waste according to workplace procedures 5.2 Clean and return tools and equipment to required location 5.3 Identify and report unserviceable tools and equipment according to workplace procedures 5.4 Record maintenance activities according to workplace procedures

Foundation Skills	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> Interpret textual information from a range of sources to identify relevant and key information about workplace operations
Writing	<ul style="list-style-type: none"> Use clear language, accurate industry terminology and logical structure to prepare irrigation system component service records, and nursery plant maintenance activity records
Oral communication	<ul style="list-style-type: none"> Use clear language to report tool and equipment unserviceability
Numeracy skills	<ul style="list-style-type: none"> Calculated daily water requirements

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCNSY301 Maintain nursery plants Release 2	AHCNSY301 Maintain nursery plants Release 1	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent unit

Links
Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72

TITLE	Assessment requirements for AHCNSY301 Maintain nursery plants
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has maintained nursery plants on at least three occasions and has:</p> <ul style="list-style-type: none"> • prepared for nursery plant maintenance activities according to workplace instructions • applied workplace health and safety requirements • selected, cleaned, used and maintained nursery plant maintenance tools and equipment • implemented a range of plant maintenance activities • maintained environmental parameters • monitored plant health • serviced and repaired basic irrigation system components • operated irrigation systems • recognised stages of plant growth • removed and disposed of waste material • recorded nursery plant maintenance activities and irrigation system service and repair activities. 	
Knowledge Evidence	
<p>An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:</p> <ul style="list-style-type: none"> • workplace requirements applicable to health and safety in the workplace for maintaining nursery plants • irrigation system operation and maintenance manual • principles and practices of nursery plant maintenance, including: <ul style="list-style-type: none"> • botany and plant physiology as it applies to plant maintenance • characteristics of various types of potting media • common problems that occur with nursery plants and their treatment • effect of different pruning and intervention methods • effects of environmental parameters on plant growth • factors affecting the growth of nursery plants • methods of calculating daily water needs • optimum growing conditions for a range of plants in a nursery • principles and operations of a range of irrigation systems used in nurseries • processes for modifying environmental parameters • relationship between plant water needs and environmental parameters • symptoms of unhealthy plants • treatments required by plants at different stages and environmental parameters. 	
Assessment Conditions	
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • a workplace setting or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • nursery plants • nursery plant maintenance tools and equipment • irrigation system, tools and equipment • personal protective equipment applicable to nursery plant maintenance • specifications: <ul style="list-style-type: none"> • workplace requirements applicable to health and safety in the workplace and nursery plant maintenance • work instructions, workplace procedures, quality specifications and environmental parameters applicable to nursery plant maintenance • irrigation system operation and maintenance manual • timeframes: <ul style="list-style-type: none"> • according to job requirements. 	

Assessment Conditions	
Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.	
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