



Australian Government

AHCHYD401 Establish and monitor hydroponic crops

Release: 1

AHCHYD401 Establish and monitor hydroponic crops

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to establish hydroponic crop nutrient requirements, supervise crop planting activities and monitor nutrient concentrations of hydroponic crops.

The unit applies to individuals who apply specialised skills and knowledge in the establishment and monitoring of hydroponic crops and have the responsibility for the output of others. This includes applying and communicating non-routine technical solutions to predictable and unpredictable problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Hydroponics (HYD)

Elements and Performance Criteria

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. Establish hydroponic crop nutrient requirements	1.1 Determine nutrient solution technique according to crop type and workplace procedures 1.2 Determine growing substrate according to crop type and workplace procedures 1.3 Identify nutrient solution according to crop type and workplace procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Document nutrient solution technique, growing substrate and nutrient solution according to workplace procedures
2. Supervise crop planting activities	2.1 Brief planting staff on crop planting requirements 2.2 Monitor staff activities against planting requirements 2.3 Conduct plant health and quality inspection according to industry standards 2.4 Identify a suitable irrigation strategy according to industry standards 2.5 Check adherence to health and safety in the workplace, environmental and biosecurity practices according to workplace procedures 2.6 Document and record planting activities
3. Monitor nutrient concentrations	3.1 Test nutrient solutions using standard industry testing methods 3.2 Analyse nutrient solution test results for plant health purposes 3.3 Adjust nutrient solution to achieve required concentration 3.4 Document solution adjustments according to industry specifications

Foundation Skills

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.

Skill	Description
Reading	Interpret textual information from a range of sources to identify relevant and key information about workplace operations and products
Oral Communication	Initiate discussions with staff, using clear language to communicate planting requirements, health and safety, and environmental practices
Numeracy	Measure and calculate nutrient solution
Navigate the world of	Recognise and follow workplace requirements, including safety

Skill	Description
work	requirements, associated with own role and area of responsibility • Check self and others adherence to workplace requirements including safety requirements
Get the work done	• Take responsibility for routine decisions about establishing and monitoring hydroponic crops and reflect on outcomes to identify effectiveness of decisions
Interact with others	• Use appropriate language and communication skills to disseminate information within work team

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCHYD401 Establish and monitor hydroponic crops	Not applicable	New unit	No equivalent unit

Links

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