



Australian Government

AHCHYD303 Implement a maintenance program for hydroponic systems

Release: 1

AHCHYD303 Implement a maintenance program for hydroponic systems

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Release 11.0.

Application

This unit of competency describes the skills and knowledge required to implement a maintenance program for hydroponic growing systems.

The unit applies to individuals who implement a maintenance program for hydroponic systems under broad direction and take responsibility for their own work.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace, and sustainability and biosecurity practices.

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
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Monitor plant health	1.1 Interpret workplace information about the existing hydroponic system 1.2 Assess growth rate of plants against targets set in the production plan

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.3 Assess plants for overall health 1.4 Assess plants for onset of fruit according to production plan
2. Monitor the hydroponic environment	2.1 Monitor environmental parameters according to the production plan and environment and biosecurity legislation and regulations, and make adjustments as required 2.2 Collect samples and send off for analysis to identify potential sources of contamination 2.3 Monitor and adjust hygiene procedures 2.4 Monitor disposal of materials according to workplace procedures
3. Monitor nutrient solution	3.1 Identify hydroponic nutrient solution ingredients 3.2 Take samples for testing and analysis 3.3 Perform titration test to determine electrical conductivity (EC) and pH of diluted nutrient solution 3.4 Interpret and discuss results with manager 3.5 Modify nutrient solution to ensure correct balance of ingredients
4. Perform routine maintenance checks	4.1 Inspect and clean filters and injection components to ensure they are clean and free of debris 4.2 Check nutrient solution delivery equipment 4.3 Check equipment controlling the atmospheric and root zone environments
5. Complete monitoring activities	5.1 Report work activities, faulty and unserviceable equipment and materials, and problems to the manager 5.2 Record checks according to workplace procedures

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
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Reading	Identify and interpret workplace information and production plan to identify relevant and key information about hydroponic system maintenance
Writing	Use clear language, accurate industry terminology and logical structure to record routine maintenance checks
Oral communication	- Use clear language to report work activities, problems, and malfunctions, faults, wear or damage to equipment and materials - Respond to questions and clarify information

Unit Mapping Information

Code and title current release	Code and title previous release	Comments	Equivalence status
AHCHYD303 Implement a maintenance program for hydroponic systems	AHCHYD301 Implement a maintenance program for hydroponic systems	Minor changes to application Minor changes to elements and performance criteria Foundation skills added Assessment requirements updated	Not equivalent

Links

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