



Australian Government

Assessment Requirements for AHCHYD401 Establish and monitor hydroponic crops

Release: 1

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Modification History

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

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has established and monitored hydroponic crops on at least one occasion and has:

- documented hydroponic crop establishment and monitoring activities
- conducted plant health and quality inspection
- identified suitable irrigation strategy
- minimised environmental impacts associated with establishing and monitoring hydroponic crops
- followed industry and workplace biosecurity procedures
- applied workplace health and safety requirements
- tested and analysed nutrient solution
- measured and calculated nutrient solution.

Knowledge Evidence

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:

- hydroponic crop nutrient solution techniques, including:
 - aeroponics
 - continuous-flow solution culture or nutrient film technique
 - deep water culture
 - drop irrigation
 - ebb and flow
 - fogponics
 - passive sub-irrigation
 - rotary

- run to waste
- static solution culture
- top-fed deep water culture
- types of hydroponic growing substrates, including:
 - clay aggregate
 - coconut coir
 - perlite
 - rockwool
 - vermiculite
- types of hydroponic nutrient solutions, including:
 - inorganic
 - organic
- plant health and quality inspection techniques
- irrigation strategies applicable to hydroponic crops
- workplace requirements applicable to health and safety in the workplace for establishing and monitoring hydroponic crops
- environmental impacts associated with establishing and monitoring hydroponic crops
- industry and workplace biosecurity procedures
- nutrient solution testing and analysis procedures and equipment, including:
 - colorimeters
 - electrical conductivity meters
 - litmus paper
 - ph indicator strips
 - ph meters
- nutrient solution measuring and calculation procedures, tools and equipment, including:
 - graduated cylinders
 - measuring spoons.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - hydroponic crop establishment and monitoring tools, equipment and materials
 - nutrient solution measuring, calculation, testing and analysing tools, equipment and procedures
 - personal protective equipment applicable to establishing and monitoring hydroponic crops
- specifications:

- workplace requirements applicable to health and safety in the workplace and establishing and monitoring hydroponic crops
- industry and workplace biosecurity procedures applicable to establishing and monitoring hydroponic crops
- relationships:
 - team members
- timeframes:
 - according to job requirements.

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

Links

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