



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **FDFWGG2007A Tend containerised nursery plants**

**Release: 2**

## FDFWGG2007A Tend containerised nursery plants

### Modification History

This unit supersedes and is equivalent to FDFWGGTCPB Tender containerised nursery plants.

April 2012: Minor typographical corrections.

### Unit Descriptor

<b>Unit descriptor</b>	This specialised unit has been developed for wine grape nurseries. It covers the skills and knowledge required to tend containerised nursery plants under supervision.
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### Application of the Unit

<b>Application of the unit</b>	This unit applies to the tending of containerised plants in wine grape nurseries. Tending includes maintaining of nursery facilities and equipment, carrying out specified treatment on plants, and sterilisation of specified equipment. All work is carried out according to instructions.
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### Licensing/Regulatory Information

Not applicable.

### Pre-Requisites

Not applicable.

## Employability Skills Information

<b>Employability skills</b>	This unit contains employability skills.
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## Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

## Elements and Performance Criteria

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
1. Maintain nursery facilities	1.1 Work instructions on tending nursery plants are confirmed and understood 1.2 Irrigation system is maintained according to instructions 1.3 Temperature controls are checked according to workplace procedures 1.4 Potential and existing hazards are identified, rectified and/or reported according to workplace procedures 1.5 Nursery hygiene requirements are followed to minimise risk of contamination
2. Treat plants to maintain growth	2.1 Common problems are recognised and reported according to instructions 2.2 Equipment and tools are selected and used according to workplace procedures 2.3 Materials are confirmed as available and ready to meet requirements 2.4 Treatments are applied according to instructions 2.5 Water is applied according to instructions 2.6 Safe work practices are followed to minimise potential and existing hazards
3. Carry out post-treatment operations	3.1 Waste is collected and disposed of according to workplace procedures 3.2 Equipment is shut down, cleaned and stored according to workplace procedures 3.3 Facilities are cleaned and sterilised according to workplace procedures 3.4 Work is conducted in accordance with workplace environmental guidelines
4. Record information	4.1 Workplace information is recorded in the appropriate format

## Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

### Required skills include:

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Note: The following required skills should be applied as appropriate to the equipment and processes that are used in the particular winery or workplace.

#### Ability to:

- access workplace information to identify plant tending requirements
- confirm supply of necessary materials
- liaise with other work areas and customers
- select, fit and use appropriate personal protective clothing and/or equipment
- identify, rectify and/or report environmental non-compliance
- select, operate, maintain and store required equipment according to instructions
- maintain work area and equipment to meet workplace housekeeping standards
- maintain work area and equipment to meet workplace hygiene standards. This may include:
  - removing weeds
  - removing dead or diseased plant materials
  - washing work area on transfer of plants
  - disinfecting tools, equipment and work areas
  - using foot baths on entry to different work areas
- use appropriate cleaning techniques
- recognise problems and anomalies and correct and/or report them as instructed
- maintain workplace records
- maintain irrigation system. This may include:
  - fixing blockages
  - servicing irrigation system components
  - identifying and reporting faulty components in an irrigation system
  - fixing leaking heads and hoses
- recognise under-performance of the irrigation system. This may include identifying:
  - dry spots
  - water dumping
  - abnormal water flow
- prepare and use equipment. This may include:
  - calibrating equipment
  - carrying out pre-operational checks
  - cleaning equipment
  - applying particular settings
- prepare chemical treatments to required concentration and ensure a homogeneous mix
- shut down equipment as instructed

- interpret chemical labels
- interpret Material Safety Data Sheets (MSDS) information
- collect and dispose of waste as instructed
- use oral communication skills/language to fulfil the job role as specified by the organisation, including questioning, active listening, asking for clarification and seeking advice from supervisor
- work cooperatively within a culturally diverse workforce.

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**Required knowledge includes:**

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Note: The following required knowledge should be applied as appropriate to the equipment and processes that are used in the particular winery or workplace.

**Knowledge of:**

- Occupational health and safety (OHS) hazards and controls
- environmental issues and controls
- purpose and application of personal protective clothing and/or equipment
- correct operating procedures for equipment
- safe and effective handling procedures for equipment
- cleaning requirements and procedures for work area and equipment
- reporting and recording requirements and procedures
- procedures and responsibilities for reporting problems and anomalies
- waste disposal requirements and procedures
- safe preparation and handling of chemicals
- principles of nursery hygiene
- workplace hygiene requirements
- common problems that may occur with potted plants in a controlled environment
- treatment practices and techniques for common problems
- principles and operations of a range of irrigation systems used in nurseries
- environmental requirements of plants growing in a nursery setting.

## Evidence Guide

<b>EVIDENCE GUIDE</b>	
<p>The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p>	
<p>Overview of assessment</p>	<p>Assessment must be carried out in a manner that recognises the cultural and literacy requirements of the assessee and is appropriate to the work performed. Competence in this unit must be achieved in accordance with food safety standards and regulations.</p>
<p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p>	<p>Evidence of ability to:</p> <ul style="list-style-type: none"> <li>• use personal protective equipment, MSDS and follow other specified OHS procedures</li> <li>• follow hygiene procedures</li> <li>• select, mix and apply chemical treatments according to instructions</li> <li>• correctly sterilise equipment</li> <li>• monitor irrigation system and correct or report faults</li> <li>• water and monitor plants to instructions.</li> </ul>
<p>Context of and specific resources for assessment</p>	<p>Assessment must occur in a real or simulated workplace where the assessee has access to:</p> <ul style="list-style-type: none"> <li>• personal protective clothing and equipment as required</li> <li>• work procedures, including advice on company practices, safe work practices, food safety, quality and environmental requirements</li> <li>• instructions, information, specifications and schedules as required</li> <li>• equipment, services and corresponding information as required</li> <li>• products and materials as required</li> <li>• internal and external customers and suppliers as required</li> <li>• cleaning procedures, materials and equipment as required</li> <li>• documentation and recording requirements and procedures.</li> </ul>
<p>Method of assessment</p>	<p>This unit should be assessed together with other units of competency relevant to the function or work role.</p>

<b>EVIDENCE GUIDE</b>	
Guidance information for assessment	To ensure consistency in one's performance, competence should be demonstrated on more than one occasion over a period of time in order to cover a variety of circumstances, cases and responsibilities, and where possible, over a number of assessment activities.

## Range Statement

<b>RANGE STATEMENT</b>	
<p>The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p>	
<b>Policies and procedures</b>	Work is carried out in accordance with workplace procedures, licensing requirements and legislative requirements
<b>Workplace information</b>	<p>Workplace information can include:</p> <ul style="list-style-type: none"> <li>• Standard Operating Procedures (SOPs)</li> <li>• specifications</li> <li>• production schedules</li> <li>• instructions</li> <li>• routine maintenance schedules</li> <li>• work notes</li> <li>• MSDS</li> <li>• manufacturer instructions</li> <li>• product labels</li> <li>• Integrated Pest Management programs</li> <li>• verbal directions from manager, supervisor, or senior operator</li> </ul>
<b>Wine grape facilities</b>	<p>Wine grape nursery facilities may include:</p> <ul style="list-style-type: none"> <li>• glasshouses</li> <li>• shade houses</li> <li>• hardening-off areas</li> </ul>
<b>Equipment</b>	Equipment may include:



<b>RANGE STATEMENT</b>	
	<ul style="list-style-type: none"> <li>• secateurs</li> <li>• water spray containers</li> <li>• dibblers</li> <li>• rubbish bins,</li> <li>• tractors,</li> <li>• knapsack sprayers</li> <li>• spray carts</li> <li>• forklift</li> </ul>
<b>Materials</b>	<p>Materials may include:</p> <ul style="list-style-type: none"> <li>• fertilisers</li> <li>• fungicides</li> <li>• insecticides</li> <li>• pallets</li> </ul>
<b>Waste</b>	<p>Waste may include:</p> <ul style="list-style-type: none"> <li>• diseased or damaged plant material</li> <li>• potting mix</li> <li>• pots</li> <li>• unused chemicals and chemical containers</li> </ul>
<b>Work hazards</b>	<p>Work hazards may include:</p> <ul style="list-style-type: none"> <li>• use of chemicals and disinfectants</li> <li>• sharp tools</li> <li>• obstacles</li> <li>• sun exposure</li> <li>• operating spray equipment</li> </ul>
<b>Irrigation system components</b>	<p>Irrigation system components may include:</p> <ul style="list-style-type: none"> <li>• pump</li> <li>• sprinkler</li> <li>• sprinkler heads</li> <li>• solenoids</li> <li>• filters</li> <li>• controllers</li> <li>• sprayers and drippers</li> </ul>
<b>Irrigation systems</b>	<p>Irrigation systems may include:</p> <ul style="list-style-type: none"> <li>• ebb and flow</li> <li>• sprinklers</li> <li>• capillary beds</li> <li>• sprayers and drippers</li> </ul>

<b>RANGE STATEMENT</b>	
<b>Problems and anomalies</b>	<p>Common problems and anomalies may include:</p> <ul style="list-style-type: none"> <li>• dehydration</li> <li>• pests</li> <li>• diseases</li> <li>• nutrient deficiencies</li> <li>• deformed plants</li> <li>• inefficient irrigation system</li> <li>• environmental parameters outside acceptable range</li> <li>• equipment breakdown</li> </ul>
<b>Treatments</b>	<p>Treatments may include:</p> <ul style="list-style-type: none"> <li>• pesticides</li> <li>• fungicides</li> <li>• fertilisers</li> <li>• removing weeds</li> <li>• canopy management</li> <li>• altering environmental parameters</li> </ul>
<b>Records</b>	<p>Records will include:</p> <ul style="list-style-type: none"> <li>• date</li> <li>• environmental parameters</li> <li>• treatments applied</li> <li>• rate of treatments</li> <li>• name of operator</li> </ul>

## Unit Sector(s)

<b>Unit sector</b>	Wine operations
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