



Australian Government

FDFWGG3005A Perform field nursery activities

Release: 2

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Modification History

This unit supersedes and is equivalent to FDFWGGFNAB Perform field nursery activities.
April 2012: Minor typographical corrections.

Unit Descriptor

Unit descriptor	This specialist unit has been developed for the wine grape growing stream of the wine sector. This unit covers the skills and knowledge required to plant, maintain and process field nursery vines.
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Application of the Unit

Application of the unit	This unit includes preparation for plantings, care of young vines and preparation for transfer and transportation.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability skills	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

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for field nursery planting	1.1 Field nursery bed is prepared according to instructions 1.2 Field nursery maintenance infrastructure is checked to confirm readiness for use as required
2. Maintain field nursery vines	2.1 Appropriate vine protection methods are applied 2.2 Field nursery activities are carried out as instructed 2.3 Young vine growth and health are monitored according to instructions 2.4 Problems and anomalies are recognised, rectified and/or reported
3. Process field nursery rootlings for removal from nursery	3.1 Vine rootlings are undercut and lifted according to instructions 3.2 Rootlings are prepared for transport according to instructions 3.3 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:

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 nursery requirements
- select, fit and use appropriate personal protective clothing and/or equipment
- liaise with other work areas and customers
- prepare field nursery bed for planting. This may include:
 - herbicide treatment
 - soil cultivations
 - fertiliser additions
 - planning vine planting (e.g. number of vines, area size, varietal lots, row spacing for mechanical operations and row orientation)
 - application of weed matting
 - positioning irrigation pipes and points
 - checking readiness of maintenance infrastructure
- select and apply appropriate vine protection methods. This should include consideration of:
 - climate, weather and prevailing wind
 - vineyard pests (e.g. rabbits)
 - aspect, orientation of vineyard
 - irrigation or fertilisation schedule
 - frost incidence
- maintain and care for young vines
- monitor the health and growth of young vines. This may involve monitoring:
 - soil moisture
 - signs of disease and pests
 - water stress
 - signs of nutrient deficiency
 - growth rate
- take corrective action in response to out-of-specification growth or appearance, or non-compliance
- report and/or record corrective action as required
- identify, rectify and/or report environmental non-compliance
- use appropriate cleaning techniques
- maintain work area to meet housekeeping standards
- lift rootlings from the beds whilst ensuring minimal plant damage. This may include:

- roots undercut adequately
- gentle handling
- prepare rootlings for transport. This may include:
 - trimming
 - counting and bundling
 - labelling
 - grading
 - packing
- plant vines according to enterprise procedures
- take samples and conduct tests according to enterprise procedures
- conduct routine maintenance of equipment according to enterprise procedures
- 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.

Required knowledge includes:

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:

- purpose, requirements and procedures for nursery bed preparation
- protection and maintenance requirements of young vines
- requirements of growing vines
- common causes and signs of young vine growth disorders and corrective action required
- Occupational health and safety (OHS) hazards and controls
- correct procedures and requirements for lifting vine rootlings from the nursery bed
- preparation requirements and procedures for transporting rootlings
- storage requirements of rootlings
- procedures and responsibility for reporting problems
- environmental issues and controls
- reporting and recording requirements and procedures
- planting procedures where relevant
- sampling and testing procedures where relevant
- routine maintenance procedures for equipment where relevant.

Evidence Guide

EVIDENCE GUIDE

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.

Overview of assessment	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.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Evidence of ability to: • use personal protective equipment, MSDS and follow other specified OHS procedures • follow vine protection procedures • prepare for, implement and monitor nursery activities • prepare vine rootlings for transport • monitor the health of rootlings.
Context of and specific resources for assessment	Assessment must occur in a real or simulated workplace where the assessee has access to: • personal protective clothing and equipment as required • work procedures, including advice on company practices, safe work practices, food safety, quality and environmental requirements • instructions, information, specifications and schedules as required • equipment, services and corresponding information as required • products and materials as required • internal and external customers and suppliers as required • cleaning procedures, materials and equipment as required • documentation and recording requirements and procedures.
Method of assessment	This unit should be assessed together with other units of competency relevant to the function or work role.
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

EVIDENCE GUIDE

	circumstances, cases and responsibilities, and where possible, over a number of assessment activities.
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Range Statement**RANGE STATEMENT**

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.

Policies and procedures

Work is carried out in accordance with workplace procedures, licensing requirements and legislative requirements

Workplace information

Workplace information can include:

- Standard Operating Procedures (SOPs)
- specifications
- production schedules
- instructions
- routine maintenance schedules
- work notes
- Material Safety Data Sheets (MSDS)
- manufacturer instructions
- verbal direction from manager, supervisor or senior operator

Bed preparation

Bed preparation may include, but is not limited to:

- cultivating
- fertilising
- planning layout

Maintenance infrastructure

Maintenance infrastructure may include:

- irrigation or fertilisation equipment and components
- windbreaks

Vine protection methods

Vine protection methods include:

- waxing
- windbreaks

RANGE STATEMENT	
	• row orientation • pest control
Maintenance activities	Maintenance activities include: • irrigation • fertilising • mulching • weed and pest control
Problems and anomalies	Problems and anomalies include: • signs of pests and diseases • equipment malfunction • rogue vines
Information systems	Information systems may be: • screen or print based
Work hazards	Work may involve exposure to: • chemical, dangerous or hazardous substances

Unit Sector(s)

Unit sector	Wine operations
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