



Australian Government

FBPVIT3007 Operate specialised canopy management equipment

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to attach, set up, operate and detach canopy management equipment.

The unit applies to vineyard workers who carry out the operation of specialised equipment used in grape growing and take responsibility for their own work using discretion and judgement in the selection and use of available resources.

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

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

Pre-requisite Unit

Prerequisite unit of competency for this unit is:

- AHCMOM202 Operate tractors

Unit Sector

Viticulture (VIT)

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. Prepare for canopy management activities	1.1 Interpret and confirm job requirements 1.2 Confirm environmental guidelines and identify potential health and safety hazards and controls according to 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>
	1.3 Select and fit personal protective equipment according to job requirements 1.4 Identify and plan canopy management requirements 1.5 Select and ensure canopy management equipment is available and suitable according to workplace procedures 1.6 Set, maintain and attach equipment to meet production requirements according to workplace procedures
2. Operate canopy management equipment	2.1 Start up equipment safely according to workplace procedures 2.2 Apply canopy management techniques according to vine vigour, capacity and local conditions 2.3 Monitor equipment performance to confirm canopy management is maintained within job requirements 2.4 Identify and address non-conformances
3. Shut down canopy management equipment	3.1 Shut down, detach and clean canopy management equipment according to workplace procedures 3.2 Clear, tidy and store materials and equipment from site on completion of canopy management activities according to workplace procedures 3.3 Collect and dispose of waste generated by canopy management activities according to environmental and workplace practices 3.4 Record workplace information 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
Reading	Interpret information from a variety of workplace documents
Writing	Record workplace information using industry-based vocabulary, grammar and conventions
Oral Communication	Converse clearly to confirm job requirements

Skill	Description
Navigate the world of work	• Apply workplace procedures and legislative responsibilities relevant to own role
Get the work done	• Identify and solve problems by referring to workplace procedures • Plan and organise tasks to achieve job requirements

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPVIT3007 Operate specialised canopy management equipment	FDFWGG2009A Operate specialised canopy management equipment	Updated to meet Standards for Training Packages Minor changes to Performance Criteria for clarity Code changed to reflect industry sector and AQF level	No equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPVIT3007 Operate specialised canopy management equipment

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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 safely and effectively set up, operated and shut down specialised canopy management equipment on at least one occasion including:

- recognising health and safety hazards in the workplace and applying controls
- selecting and using personal protective equipment (PPE)
- attaching and setting up equipment to meet job requirements
- starting, operating, and shutting down equipment safely and according to workplace procedures
- taking corrective action according to non-conformances
- disposing of waste according to workplace procedures
- recording information according to workplace procedures.

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:

- key factors affecting the canopy management technique, including:
 - climate, forecast and current weather conditions
 - vineyard aspect and terrain
 - grape variety and vigour
 - grape quality and characteristics required
 - trellis design
 - harvesting techniques
 - disease risk and occurrence
 - stage of maturity and development
- canopy management equipment, operating parameters and procedures
- factors influencing vine vigour:

- grape variety
- trellis design
- vine spacing
- fertilisers
- irrigation
- rootstock
- features and benefits of a range of canopy management styles and techniques and their respective effect on grape quality, cropping yield and wine production requirements, including techniques to manage:
 - light penetration and shading
 - air circulation and disease reduction
 - annual growth stages of vine development
 - crop quality and quantity
- significance and method of monitoring canopy management activities
- purpose and basic components of canopy management equipment
- operational procedures for equipment:
 - attaching equipment to tractor
 - setting up equipment to meet requirements
 - confirming equipment status and condition
 - operating equipment to meet requirements
 - starting and shutting down equipment
 - recognising equipment performance problems and rectifying and reporting
 - cleaning and storing equipment
 - detaching equipment from tractor
 - using appropriate cleaning techniques
 - carrying out routine maintenance of equipment
- monitoring canopy management activities:
 - width of canopy
 - speed of tractor and power take-off rpm
 - density of foliage
 - air circulation
 - light penetration or shade
 - bud numbers, spur length
 - vine damage
 - rate of progress
- health and safety hazards and controls in the workplace
- selecting, fitting and using PPE
- environmental issues and controls
- basic vine canopy problems or anomalies
- taking corrective action in response to non-conformances

- system for reporting problems
- cleaning and storage requirements and procedures for equipment
- maintaining workplace records.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a vineyard or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - PPE
 - canopy management equipment, services and corresponding information
 - vines requiring canopy management
 - cleaning procedures, materials and equipment
 - documentation and recording requirements and procedures
- specifications:
 - work procedures, including advice on company practices, safe work practices, canopy management and environmental requirements
 - work instructions and schedules.

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

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