



Australian Government

AHCMOM310 Operate land-forming machinery and equipment

Release: 2

AHCMOM310 Operate land-forming machinery and equipment

Modification History

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 3.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

Application

This unit of competency describes the skills and knowledge required to operate machinery and equipment used for land-forming in agriculture and horticulture sectors.

The unit applies to individuals who operate land-forming machinery and equipment under broad direction, and take responsibility for their own work.

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

Pre-requisite Unit

Nil

Unit Sector

Machinery operation and maintenance (MOM)

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 land-forming machinery for use	1.1 Confirm activity to be undertaken, including identifying potential hazards and risks and implementing safe working practices to manage risks 1.2 Source and interpret relevant land-forming machinery and equipment operation and maintenance manual and manufacturer instructions

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 maintain personal protective clothing and equipment according to workplace safety requirements 1.4 Fit and use personal protective equipment according to job requirements and applicable to task to be undertaken 1.5 Conduct land-forming machinery and equipment routine pre-operational checks 1.6 Document damaged or worn components and organise for replacement according to workplace procedures 1.7 Attach ancillary equipment and check for correct operation
2. Operate land-forming machinery and equipment	2.1 Carry out machinery pre-start, and start up procedures 2.2 Operate land-forming machinery and equipment in a safe, controlled and efficient manner and monitor for performance and efficiency 2.3 Operate land-forming machinery according to operation and maintenance manual, manufacturer specifications, task requirements and conditions 2.4 Identify environmental and biosecurity implications associated with land-forming and undertake activities to minimise impact 2.5 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment
3. Complete work	3.1 Conduct shut down procedures for land-forming machinery and equipment in line with workplace processes 3.2 Perform routine operational servicing and minor maintenance 3.3 Identify and report malfunctions, faults, irregular performance or damage according to workplace procedures 3.4 Clean, store and secure land-forming machinery and equipment according to workplace procedures 3.5 Maintain land-forming machinery use records in required format

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 textual information from a range of sources to identify relevant and key information about workplace operations
Writing	Document land-forming machinery use
Oral communication	Use clear language to report malfunctions, faults, irregular performance or damage
Navigate the world of work	Recognise and follow workplace requirements, including safety requirements, associated with own role and area of responsibility

Range of Conditions

This section specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Pre-operational checks must include:	- machine damage and serviceability - checking for missing parts.
Biosecurity implications must include:	control of cross-site contamination.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMOM310 Operate land-forming machinery and equipment Release 2	AHCMOM310 Operate land-forming machinery and equipment Release 1	Minor changes to performance criteria, foundation skills and range of conditions	Equivalent unit

Links

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

Assessment Requirements for AHCMOM310 Operate land-forming machinery and 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 operated land-forming machinery and equipment for agricultural or conservation earthworks purposes at least once and has:

- identified hazards and implemented safe workplace practices and procedures
- carried out land-forming machinery and equipment pre-operational checks according to operation and maintenance manual
- performed minor maintenance
- recognised and documented defects in land-forming machinery and equipment and operational capacity
- attached and detached ancillary equipment safely
- operated land-forming machinery and equipment according to operation and maintenance manual, manufacturer specifications, task requirements and conditions
- shut down machinery and equipment and recorded usage
- minimised environmental impacts associated with land-forming machinery and equipment operation
- followed industry and workplace biosecurity procedures
- applied workplace health and safety 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:

- hazards and risks associated with land-forming machinery and equipment operations
- land-forming machinery and equipment components, controls, features, technical capabilities and limitations
- manufacturer requirements and workplace requirements for:

- pre-operational checks
- machinery operation techniques
- operator level servicing
- planned and emergency shut down procedures
- general land forming concepts and practices including:
 - contouring, surface drainage and erosion
 - slope requirements
 - survey and set out
- workplace procedures applicable to health and safety in the workplace requirements for land-forming machinery and equipment operation
- environmental impacts associated with operating machinery and equipment used for land-forming
- industry and workplace biosecurity procedures.

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
 - in a range of weather and surface conditions and on a range of different terrains
 - individual must not be under the influence of alcohol or drugs
 - individual must not be taking any medication (prescribed or otherwise) that may impair judgement
 - individual must not be in a fatigued state when operating land-forming machinery
- resources, equipment and materials:
 - land-forming machinery and equipment
 - safety equipment and personal protective clothing and equipment applicable to the task being undertaken
- specifications:
 - land-forming machinery and equipment operation and maintenance manuals
 - industry and workplace biosecurity procedures applicable to land-forming
- timeframes:
 - according to the job requirements.

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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