



Australian Government

AHCMOM304 Operate machinery and equipment

Release: 2

AHCMOM304 Operate 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 prepare and operate machinery and equipment in a safe and controlled manner that is used principally in agriculture, horticulture, and conservation and land management work.

This unit does not apply to chainsaws, tractors, vehicles or earth moving equipment.

The unit applies to individuals who operate 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 machinery and equipment 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 machinery and equipment operation

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	and maintenance manual and manufacturer instructions 1.3 Assess the work site and confirm the suitability of the machinery and equipment for the task 1.4 Select and maintain personnel protective equipment applicable to the machinery and equipment to be operated and the task to be undertaken 1.5 Fit and use personal protective equipment according to workplace procedures and job requirements 1.6 Conduct routine pre-operational checks as described in operation and maintenance manual 1.7 Replace and report damaged or worn components in line with workplace reporting requirements 1.8 Attach ancillary equipment and check for correct operation
2. Operate machinery and equipment	2.1 Operate machinery according to task requirements, conditions, operation and maintenance manual and manufacturer specifications 2.2 Monitor machinery performance and efficiency and make adjustments 2.3 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment
3. Complete machinery and equipment operation	3.1 Conduct shut down of machinery according to workplace procedures 3.2 Perform routine operational servicing and minor maintenance according to operation and maintenance manual 3.3 Identify and report malfunctions, faults, irregular performance or damage according to workplace procedures 3.4 Clean, secure and store machinery and equipment according to workplace procedures 3.5 Maintain machinery and equipment 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 machinery and equipment use
Oral communication	Use clear language to report malfunctions, faults, irregular performance or damage
Numeracy	Calculate quantities of machinery fluids including oil and fuel
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.

Machinery and equipment must include at least one of the following:	- hydraulic equipment - stationary engines - spraying equipment - mulching and chipping equipment - powered trailers - three point linkage equipment.
Pre operational checks must include:	- machinery and equipment damage and serviceability - engine oil - fuel - machinery and equipment controls - reporting and tagging defects.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMOM304 Operate machinery and equipment	AHCMOM304 Operate machinery and equipment Release 1	Minor changes to performance criteria, foundation skills and range of conditions	Equivalent unit

Release 2			
-----------	--	--	--

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 AHCMOM304 Operate 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.

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 operated agricultural or horticultural machinery and equipment at least once and has:

- identified and reported workplace hazards and implemented safe operating procedures
- carried out machinery and equipment pre-operational checks including basic servicing and maintenance according to operation and maintenance manual
- operated machinery and equipment in a safe and controlled manner consistent with task requirements, conditions, operation and maintenance manual and manufacturer specifications
- attached ancillary equipment and checked for correct operation
- carried out machinery shut down procedures
- recognised, reported and documented defects in equipment and machinery and operational capacity
- cleaned, secured and stored machinery and equipment.

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 machinery and equipment operation
- pre-operational and safety checks for machinery and equipment according to operation and maintenance manual
- operating principles and operating methods for machinery and equipment
- procedures for cleaning, securing and storing machinery, equipment and materials
- risks associated with the operation of machinery and equipment in different weather conditions and difficult terrain conditions
- duty of care to self, others and the environment

- workplace procedures applicable to health and safety in the workplace requirements for operating machinery and equipment.

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
 - 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 machinery and equipment
- resources, equipment and materials:
 - a range of machinery and equipment
 - enclosed toe shoes
 - safety equipment and personal protective equipment applicable to the machinery and equipment being used and the task being undertaken
- specifications:
 - machinery and equipment operation and maintenance manuals
 - industry and workplace biosecurity procedures applicable to machinery and equipment operation
 - records must include details of the machinery and equipment that the individual was assessed on
- 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.

Links

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