



Australian Government

AHCMOM204 Undertake operational maintenance of machinery

Release: 2

AHCMOM204 Undertake operational maintenance of machinery

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 for, carry out and complete operational maintenance of machinery used in the agriculture, horticulture and land management sectors.

The unit applies to individuals who undertake routine work under general supervision with limited autonomy and accountability when conducting machinery maintenance tasks.

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 for maintenance	1.1 Confirm with supervisor activity to be undertaken, including identifying and reporting potential hazards and risks and implementing safe working practices to manage risks 1.2 Select tools and supplies that conform with job requirements and maintenance plan

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 check serviceability of tools, equipment and materials according to machinery operation and maintenance manual 1.4 Select and maintain personal protective equipment according to workplace safety requirements 1.5 Fit and use personal protective equipment applicable to maintenance task to be undertaken
2. Perform scheduled maintenance	2.1 Undertake machinery basic servicing tasks in line with workplace practices 2.2 Adjust equipment according to task requirements 2.3 Apply basic diagnostic techniques and identify and fix mechanical faults 2.4 Report serious or complex faults to supervisor
3. Complete maintenance activities	3.1 Clean and store tools according to workplace procedures 3.2 Clean and maintain work areas and return to operating condition 3.3 Collect, treat and dispose or recycle waste from maintenance activities according to workplace procedures 3.4 Record maintenance procedures in workshop records

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 and workplace operations
Writing	Document machinery maintenance activities in required format
Oral communication	- Use clear language to report safety concerns and serious or complex faults - Participate in verbal exchanges to respond to questions and clarify information
Numeracy	Calculate quantities of machinery fluids including oil, lubricant and fuel

Skill	Description
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 must include at least two of the following:	• chainsaws • harvesters • hedge trimmers • mechanical pruners • motorcycles • rotary hoes • sprayers • tractors • turf mowers • vehicles • winches.
Basic servicing tasks must include:	• maintenance interval schedule daily check • machinery damage and serviceability • removal and replacement of faulty parts and/or components • tagging complex faulty parts and/or components • checking for missing parts • fluid leaks and levels • fuel level • machine controls • servicing tasks applicable to machinery.
Basic diagnostic techniques must include at least one of the following:	• inspection • trouble shooting • fault finding.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMOM204 Undertake operational maintenance of machinery Release 2	AHCMOM204 Undertake operational maintenance of machinery Release 1	Minor changes to performance criteria 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 AHCMOM204 Undertake operational maintenance of machinery

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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 prepared for, carried out and completed operational maintenance of at least two types of machinery used in the agriculture, horticulture or land management sectors. For each machinery type, the individual must have demonstrated the following:

- identified and reported hazards and implemented safe working practices
- selected and prepared tools and equipment required for machinery maintenance
- carried out lubrication and operational servicing of machinery
- conducted basic diagnostic tests required for maintenance of machinery
- checked machinery components for wear and tear, replaced parts, tagged and reported defects
- collected, removed and recycled or disposed of wastes according workplace environmental procedures
- followed workplace health and safety procedures when undertaking operational maintenance of machinery.

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:

- types and uses of lubricants and other commonly used servicing materials
- operating principles of machinery including mechanical and auto-electrical systems
- servicing characteristics of plant and equipment
- types, characteristics, uses and limitations of hand power tools
- functions of components of common mechanical and hydraulic systems
- different working principles of two stroke, four stroke, petrol and diesel engines
- set-up requirements of plant and equipment, and principles of calibration

- basic diagnostic processes and techniques used to identify faults
- sourcing machinery and equipment operation and maintenance manuals
- environmental impacts of machinery maintenance and disposal of fuels, oils and other wastes
- procedures applicable to health and safety in the workplace requirements to maintain machinery safely.

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
- resources, equipment and materials:
 - machinery
 - maintenance tools and equipment
 - personal protective equipment applicable to the task being undertaken
- specifications:
 - machinery operation and maintenance manual
 - workplace procedures applicable to machinery maintenance
- 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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