



Australian Government

AHCMOM302 Perform machinery maintenance

Release: 3

AHCMOM302 Perform machinery maintenance

Modification History

Release	Comments
Release 3	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 10.0.
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, inspect, maintain and record maintenance requirements for machinery that is used principally in agriculture, horticulture, and conservation and land management work.

The unit applies to individuals who conduct machinery maintenance under broad direction, and take responsibility for their own work.

No 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 to maintain equipment	1.1 Determine job requirements from workplace instructions 1.2 Source and interpret machinery and equipment operation and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	maintenance manual servicing information 1.3 Select suitable and safe work site for maintenance activities 1.4 Identify workplace hazards, assess risks and implement risk controls 1.5 Select and check for serviceability tools, equipment and materials according to operation and maintenance manual 1.6 Fit, use and maintain personal protective equipment according to job requirements and operation and maintenance manual
2. Inspect engine and components	2.1 Carry out regular engine and component checks on machinery and equipment 2.2 Lubricate all relevant grease or lubricant points 2.3 Change oils and filters at intervals prescribed in operation and maintenance manual 2.4 Check hydraulic hoses and systems for deterioration and rectify defects according to operation and maintenance manual
3. Inspect transmission	3.1 Check drive and steering clutches for operation and adjust where applicable according to operation and maintenance manual 3.2 Check transmission oil levels 3.3 Check tracks or wheels and undercarriage for oil leaks and wear 3.4 Identify faulty seals or leaks and take corrective actions according to operation and maintenance manual 3.5 Clean machinery according to workplace requirements
4. Maintain components and attachments	4.1 Check components for wear and condition 4.2 Replace worn or unserviceable components according to operator and maintenance manual 4.3 Complete component inspection and replacement activities in line with workplace procedures 4.4 Check moving operational components for wear and condition and adjust to the tolerances specified in operator and maintenance manual 4.5 Clean and maintain work areas and return to operating condition 4.6 Collect, treat and dispose or recycle waste from maintenance activities 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>
5.Record maintenance	5.1 Record identified faults and defects in machine record 5.2 Record maintenance procedures in workshop record in line with workplace procedures 5.3 Report service or repair requirements to management

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	Legibly and accurately fill out workplace documentation when recording faults, defects and maintenance procedures
Oral communication	Use clear language to report service or repair requirements
Numeracy	- Calculate quantities of machinery fluids including oil - Identify correct tyre pressure
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:	- heavy earthmoving equipment - tractors - vehicles and trucks - skid steer loaders - self-propelled harvesters and pickers
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	• front end loaders • forklifts • land levellers • motorised turf mowing equipment • spraying equipment • pumps • grain handling equipment.
Personal protective clothing and equipment must include:	• enclosed toe shoes • safety glasses/goggles.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMOM302 Perform machinery maintenance Release 3	AHCMOM302 Perform machinery maintenance Release 2	Minor change to wording in Element 1	Equivalent

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 AHCMOM302 Perform machinery maintenance

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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 undertaken maintenance of machinery that is used principally in agriculture, horticulture or conservation and land management work at least once and has:

- identified workplace hazards, assessed risks and implemented safe workplace procedures
- carried out engine and equipment inspection and maintenance
- carried out transmission inspection and maintenance
- carried out lubrication and replacement of oils and filters
- checked machinery and equipment components for wear and tear, replaced parts, tagged and reported defects
- minimised environmental impacts associated with undertaking machinery maintenance
- maintained machinery and equipment components
- recorded details of maintenance and monitoring
- applied workplace health and safety procedures when undertaking machinery maintenance activities.

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:

- engine function principles
- turbo charging and after cooling
- assessing engine specifications in line with power requirements

- engine electric and hydraulic indicators and gauges
- transmission and drive systems
- machinery and equipment operation and maintenance manual
- environmental impacts of machinery servicing and disposal of fuels, oils and other wastes
- workplace procedures applicable to health and safety in the workplace and machinery maintenance.

Assessment Conditions

Assessment of the skills in this unit of competency 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 and equipment
 - maintenance tools and equipment
 - safety equipment and personal protective equipment applicable to the task being undertaken
- specifications:
 - machinery operation and maintenance manual
 - workplace procedures applicable to health and safety in the workplace and 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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