



Australian Government

AHCMOM317 Operate tractors with attachments

Release: 1

AHCMOM317 Operate tractors with attachments

Modification History

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

Application

This unit of competency describes the skills and knowledge required to prepare for, operate and maintain tractor operations with attached equipment.

Working with tractors is an inherently dangerous activity. Individuals who work at this level must be thoroughly instructed in all health and safety in the workplace aspects of operating tractors. The tractor must also comply with relevant Australian standards for tractors.

The unit applies to individuals who operate tractors with attachments under broad direction and take responsibility for their own work.

Vehicle must be operated according to relevant state/territory licensing authority vehicle licence requirements and regulations.

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 tractor for operation	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 operation and maintenance

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	manual and manufacturer instructions 1.3 Select and maintain personal protective equipment according to workplace safety requirements 1.4 Fit and use personal protective equipment required for safe tractor operation and task to be undertaken 1.5 Conduct tractor routine pre-operational checks according to operation and maintenance manual 1.6 Inspect for missing parts, damage, faults, or malfunctions and report and tag defects
2. Select, remove and fit attachments	2.1 Select attachment for the task 2.2 Safely fit attachment according to manufacturer instructions and local conditions for use 2.3 Test attachment to ensure correct fitting and safe operation 2.4 Use attachment in accordance with recommendations and design limits
3. Operate tractor	3.1 Carry out pre-start and start up equipment procedures 3.2 Drive and operate tractor, and modify the operating technique to meet changing work conditions 3.3 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment 3.4 Identify environmental and biosecurity implications associated with tractor operation and minimise impact 3.5 Complete work according to agreed plan and within the operating capacity of the equipment and operator 3.6 Act on or report abnormal monitoring system indicators and alarms
4. Complete and check tractor operation	4.1 Park tractor and conduct shut down procedures according to workplace practices 4.2 Perform routine operational servicing and minor maintenance according to the operation and maintenance manual 4.3 Identify and report malfunctions, faults, irregular performance or damage according to workplace procedures 4.4 Safely remove attachments according to manufacturer instructions 4.5 Clean and store removed attachments in designated location

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.6 Clean, decontaminate, secure and store tractor in designated location 4.7 Remove and store keys in the required location 4.8 Maintain tractor 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 tractor and equipment use
Numeracy	- Calculate quantities of vehicle fluids including fuel - Identify correct tyre pressure or track tension
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:	- maintenance interval schedule daily check - machine damage and serviceability - guards are in place and undamaged - checking for missing parts - fluid leaks and levels - fuel level - brakes and clutch operation
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	• condition of tyres or tracks • machine controls.
Attachment must include one three point linkage, one Power Take Off (PTO) driven and one trailed implement from the following tractor attachments and implements:	• three point linkage implement linkage adjustment • three point linkage PTO driven • three point linkage hydraulic operated • tractor mounted implement direct drive • tractor mounted implement hydraulic operated • tractor mounted implement PTO operated • trailed implement manual adjustment • trailed implement mechanical adjustment • trailed implement PTO operated • trailed implement hydraulic operated.
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
AHCMOM317 Operate tractors with attachments Release 1	Not applicable	New unit	No equivalent unit

Links

Assessment of skills must take place under the following conditions: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCMOM317 Operate tractors with attachments

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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 used safe working practices when operating tractors and fitting and using attachments on at least one occasion and has:

- identified hazards and risks associated with operating tractors and using attachments
- implemented safe working practices to minimise risks when fitting and using attachments
- carried out tractor pre-operational checks and maintenance including tagging defects
- driven and operated a tractor safely, including modifying operating technique to meet changing work conditions
- selected and safely attached, removed, tested and used one three point linkage, one power take off driven and one trailed implement according to manufacturer specifications and weather conditions
- used safe towing practices
- operated tractors on an incline and an off-road surface with and without attachments and implements
- carried out tractor shut down procedures
- minimised environmental impacts associated with tractor operation
- applied workplace health and safety procedures or safe tractor operation
- followed industry and workplace biosecurity 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:

- tractor components, controls and features and operational functions
- tractor steering systems and features
- tractor operation and maintenance manuals
- features, operational functions and procedures for safe fitting and use of attachments and implements

- load limits and the principles of weight distribution with regard to load shifting and tractor movement
- distinguishing characteristics of individual tractors including rated performance capacities
- effects of various surface and difficult terrain conditions on tractor operation and use of attachments
- duty of care to self, others and the environment
- relevant legislation with regard to tractor operation and licensing requirements
- environmental impacts relevant to operation of tractors with attachments
- common injuries, causes and implications of using unsafe practices when operating tractors and fitting attachments
- workplace procedures relevant to health and safety in the workplace requirements to operate a tractor safely
- 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
 - 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 the machinery
- resources, equipment and materials:
 - tractors
 - attachments
 - safety equipment and personal protective equipment applicable to the task being undertaken
- specifications:
 - tractor operation and maintenance manual
 - industry and workplace biosecurity procedures applicable to tractor operation
 - legislation relevant to tractor operation and licensing requirements
- 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>

