



Australian Government

AHCMOM311 Operate precision control technology

Release: 2

AHCMOM311 Operate precision control technology

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 precision technology used for the control of specialised machinery and equipment and to optimise specialised machinery performance.

The unit applies to individuals who operate precision control technology 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 precision technology 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 precision control technology 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 Conduct precision control technology routine pre-operational checks according to workplace practices 1.4 Record minor routine servicing and housekeeping tasks in line with workplace processes 1.5 Check ancillary equipment for correct operation 1.6 Check that data complies with job specifications
2. Operate precision technology	2.1 Operate precision control technology according to operation and maintenance manual, manufacturer specifications, task requirements and conditions 2.2 Monitor activities to ensure that machinery is operating in an efficient and controlled manner and make adjustments as required 2.3 Monitor and assess hazards and risks, and ensure safety of self, other personnel and associated equipment 2.4 Identify and assess impacts on the environment of precision control equipment operation and undertake activities to minimise
3. Complete work	3.1 Conduct shut down procedures for precision control equipment according to workplace practices 3.2 Download data and complete operational records 3.3 Perform basic diagnostic procedures as required according to job specifications 3.4 Identify and report malfunctions, faults and irregular performance or damage according to workplace procedures

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	Complete operational records

Skill	Description
Numeracy	- Check and compare precision control technology data against job specifications - Download and interpret precision control technology data and record in operational records
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.

Precision control technology must include at least one of the following:	- on-board Global Positioning System (GPS), Global Navigation Satellite System (GNSS) or Differential Global Positioning System (DGPS) precision control equipment - fixed GPS, GNSS or DGPS precision control equipment.
Pre-operational checks must include at least one of the following:	- precision control technology equipment damage and serviceability - Automatic Section Control measurement check - equipment dimension check - GPS offset setting.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMOM311 Operate precision control technology Release 2	AHCMOM311 Operate precision control technology 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 AHCMOM311 Operate precision control technology

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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 precision control technology in the operation of agricultural or horticultural machinery at least once and has:

- identified hazards and implemented safe workplace practices and procedures
- carried out precision control technology pre-operational checks according to operation and maintenance manual
- used technology to operate machinery in an efficient and controlled manner
- minimised environmental impacts associated with use of precision control technology to operate machinery
- performed routine maintenance tasks
- performed basic diagnostic procedures
- downloaded and uploaded data for the task
- 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:

- manufacturer specifications and requirements for:
 - precision control technology pre-operational checks
 - precision instrument controls, feature and functions
 - minor servicing requirements
- uploading and downloading of data produced during the operation of precision control machinery and associated equipment
- components and controls features and functions of equipment
- diagnostic techniques for operational performance

- characteristics, technical capabilities and limitations of associated machinery and equipment
- environmental impacts of using precision control technology to operate machinery.

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 precision control technology equipment
- resources, equipment and materials:
 - precision control technology equipment
- specifications:
 - precision control technology equipment operation and maintenance manuals
- 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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