



Australian Government

AHCMOM601 Analyse machinery options

Release: 2

AHCMOM601 Analyse machinery options

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 calculate, review and analyse machinery options within an agricultural, horticultural or land management enterprise.

This unit applies to individuals who apply advanced skills and knowledge to analysing machinery options and take personal responsibility and exercise autonomy in undertaking complex work. They analyse information and exercise judgement to complete a range of advanced skilled activities. They work in contexts that are subject to change and adapt a range of fundamental principles accordingly.

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. Calculate costs associated with machinery use	1.1 Source and compare relevant benchmark data that relates machinery costs to workplace productivity and data 1.2 Calculate operating, overhead and intangible costs related to use of

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	machinery for a workplace 1.3 Make comparisons of productivity and suitability between different types and brands of machinery
2. Review machinery requirements	2.1 Review machinery inventory in the context of workplace objectives, current and future productivity, and profitability levels 2.2 Assess and control risks associated with high capital investment in machinery to make decisions about machinery requirements for a workplace 2.3 Identify, cost and evaluate alternatives to ownership 2.4 Identify tax impact of the capital investment using professional support where required and incorporate into a cost analysis
3. Analyse returns from major capital investments in machinery	3.1 Use capital budgeting techniques including energy efficiency considerations to calculate the rate of return on major investment decisions 3.2 Review machinery options plan, and analyse and record changes according to workplace requirements

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 technical details and operational running costs for different types of machinery
Writing	Prepare detailed reports to document machinery options using multiple criteria
Numeracy	- Analyse complex data to evaluate machinery options - Calculate rates of return for major investments in machinery over specified timeframes
Navigate the world of work	Identify and describe own workplace 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.

Alternatives to ownership must include at least one of the following:	• contracting • share agreements and syndication • machinery rings.
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCMOM601 Analyse machinery options Release 2	AHCMOM601 Analyse machinery options Release 1	Minor changes to performance criteria and foundation skills	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 AHCMOM601 Analyse machinery options

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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 analysed machinery options for a workplace, including the associated costs and potential returns on capital investments, and has demonstrated the following on at least one occasion:

- compared the productivity and suitability of different types and brands of machinery
- identified and calculated total costs associated with machinery operations
- reviewed machinery requirements for a workplace and evaluated costed alternative options
- analysed the financial costs, tax impacts and investment risks for different types of machinery
- budgeted and incorporated benchmarks of energy efficiency for total running costs of machinery
- calculated potential returns from major capital investments in machinery over designated timeframes
- documented machinery usage analysis and preferred options
- reviewed the machinery options plan and analysis of options.

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:

- benchmarking practices and procedures for determining machinery requirements, including energy efficiency, carbon footprint and water use efficiency
- capital budgeting techniques
- relevant taxation provisions relating to investment in machinery types including related technology and equipment
- risks associated with machinery investments

- analysis and planning processes required for machinery operation and location.

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 requirements and machinery options plan
 - machinery costs benchmark data
- 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

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