



Australian Government

ACMEQU418 Select horses based on analysis of pedigree

Release: 1

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Modification History

Release	Comments
Release 1	This version released with ACM Animal Care and Management Training Package Version 5.0.

Application

This unit of competency describes the skills and knowledge required to carry out horse bloodstock and pedigree research services across all classes of horses.

The unit applies to individuals who evaluate horse pedigrees and conformation to determine the market value, performance potential or intended use of individual horses. They work autonomously and apply specialist knowledge and skills to provide and communicate solutions for predictable and at times unpredictable problems.

Commonwealth and state/territory health and safety and animal welfare legislation, regulations and codes of practice relevant to interacting with horses apply to workers in this industry. Requirements vary between industry sectors and jurisdictions.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Equine (EQU)

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. Apply basic genetic theories to assessment of horses	1.1 Identify common inherited faults, abnormalities and genetic disorders of horses 1.2 Interpret horse lineage history and apply genetic inheritance rules to analyse horse pedigrees

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 Arrange for DNA testing of parentage and genetic disorders where required
2. Assess conformation of horses selected for a particular purpose	2.1 Assess and describe horse conformation using correct, objective industry terminology 2.2 Evaluate horse conformation according to desired performance or intended use 2.3 Evaluate contribution of the sire and dam to conformation of horse
3. Select horses based on pedigree analysis	3.1 Determine desired features of horses for intended use 3.2 Interpret pedigree data and lineage history, past performance, sibling performance, breeding outcomes and other traits to rate horse suitability for a particular purpose 3.3 Assess horse potential for performance, work or recreational purpose 3.4 Rank prospective horses according to preferred features, budget and likely potential to achieve requirements of intended use 3.5 Convey information and recommendations relating to horse pedigrees to relevant personnel
4. Organise purchase or transfer of horses	4.1 Determine requirements for new registrations or transfer of ownership according to relevant procedures and regulations 4.2 Determine insurance requirements relevant to purchase or transfer of horses 4.3 Identify transportation requirements for transfer of horses to new location 4.4 Complete required documentation and organise handover of horses according to legal 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
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Skill	Description
Reading	Interpret and analyse textual information relating to horse pedigree and conformation
Writing	Collate data and document pedigree results using industry-specific terminology and print-based and/or digital formats
Oral communication	Use questioning techniques and language suitable for audience to seek and provide information
Numeracy	- Collate and interpret numerical data relating to horse pedigrees and genetics - Analyse financial information and market value of horses

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ACMEQU418 Select horses based on analysis of pedigree	ACMPHR409 Analyse performance horse pedigrees	Title changed Unit sector changed to EQU Performance Criteria updated for clarity Element 3 added Foundation Skills table and Assessment Requirements updated	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b75f4b23-54c9-4cc9-a5db-d3502d154103>

Assessment Requirements for ACMEQU418 Select horses based on analysis of pedigree

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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:

- safely assessed and documented the suitability of at least two horses for a particular purpose, including for each horse:
 - researched and analysed pedigree information
 - identified potential for common horse genetic disorders
 - evaluated conformation
 - assessed horse potential for performance, work or recreational purpose
- selected at least one horse for a specific purpose, including:
 - researched current market conditions
 - transferred ownership or purchase of horse
 - organised registration, insurance and transportation requirements.

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:

- features of horse breeds and breed standards
- horse traits and conformation suited to various horse sports, recreation or work purposes
- fundamental principles of genetic inheritance relevant to horse pedigrees, including:
 - Mendelian laws relating to dominance, segregation and independent assortment
 - cytogenetics in relation to common inherited diseases and disorders of horses
 - situations and requirements relating to DNA testing of parentage and genetic disorders
 - pedigrees and performance of sires and dams in individual horse pedigrees
- sources of current information about breed or sport horses considered for selection
- breed and horse sport association regulations and registration procedures

- ownership and transfer requirements
- types of horse insurance
- suitable methods for transporting horses
- key requirements of relevant legislation and codes of practice relating to horses, including:
 - work, health and safety, including safely interacting with horses and use of personal protective equipment (PPE)
 - animal welfare relating to the safe, humane and ethical care of horses, including the concept of social licence to operate
 - biosecurity and transportation of horses.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - an equine workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - live horses and/or videos of live horses as specified in the performance evidence
 - information about horse pedigrees, breeds and conformation
 - record-keeping formats.

The *Companion Volume: User Guide: Safety in Equine Training* provides advice and sample templates to assist assessors with the risk assessments that should be undertaken to help ensure the safety of all involved in the assessment.

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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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b75f4b23-54c9-4cc9-a5db-d3502d154103>