



Australian Government

**Assessment Requirements for AHCLSK509
Develop and implement a breeding strategy**

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 7.0.

Performance Evidence

An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has developed and implemented a breeding strategy on at least one occasion and has:

- used industry programs to benchmark and identify sources of genetic material
- developed breeding objectives
- implemented selection strategies for livestock
- identified genetic information for existing and potential livestock through breed data
- monitored progress in a breeding program and undertaken reviews
- applied relevant workplace health and safety and environmental and biosecurity legislation regulations and workplace procedures
- implemented animal welfare strategies to handle livestock safely and humanely
- applied animal welfare industry standards, legislation and codes of practice and procedures relevant to livestock production
- evaluated breeding program
- documented and reviewed data derived from the breeding strategy.

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:

- workplace requirements applicable to health and safety in the workplace for developing and implementing a breeding strategy
- environment and biosecurity legislation and regulations and workplace practices relevant to developing and implementing a breeding strategy
- animal welfare industry standards, legislation and codes of practice and procedures relevant to livestock production
- principles and practices for developing and implementing a breeding strategy, including:

- difference between genotype and phenotype, the heritability of genetic traits and the basic genetic theory related to genetic correlation of traits
- relevance of generation interval in relation to commercial improvement
- relevance of estimated breeding values in the development of a multi-trait selection strategy
- economic impact of production characteristics
- features and measurement of production and genetic characteristics used in breeding programs.

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:
 - work instructions and workplace procedures applicable to developing and implementing a breeding strategy
- specifications:
 - workplace documentation relating to breeding information and financial arrangements required to develop a breeding strategy
 - workplace requirements applicable to health and safety in the workplace for developing and implementing a breeding strategy
 - environment and biosecurity legislation and regulations and workplace practices applicable to developing and implementing a breeding strategy
 - industry standards, legislation and codes of practice and procedures for animal welfare applicable to livestock production.
- timeframes:
 - according to 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>