



Australian Government

AHCLSK508 Plan, monitor and evaluate strategies to improve livestock through genetics

Release: 1

AHCLSK508 Plan, monitor and evaluate strategies to improve livestock through genetics

Modification History

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

Application

This unit of competency describes the skills and knowledge required to improve livestock through genetics, including determining breeding goals, assessing current performance, selecting livestock for genetic improvement, implementing and monitoring breeding program and evaluating the program against breeding goals.

The unit applies to individuals who apply specialist skills and knowledge to planning, monitoring and evaluating strategies to improve livestock through genetics, take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information, and analyse, design and communicate solutions to sometimes complex problems.

All work must be carried out to comply with workplace procedures, health and safety in the workplace requirements, animal welfare legislative, regulatory and codes of practice requirements, and sustainability and biosecurity practices.

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

Pre-requisite Unit

Nil

Unit Sector

Livestock (LSK)

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>

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1. Plan breeding goals	1.1 Select product specification suited to breeding enterprise 1.2 Determine the breeding goals and strategy to meet market specifications 1.3 Analyse traits affecting profit in a livestock breeding enterprise to optimise production through an improved breeding program 1.4 Assess workplace environment and select a breed and breeding program to match the environment
2. Assess current performance of the breeding program	2.1 Collect and analyse data on traits currently used in breeding program 2.2 Collect and analyse data on current market performance, using customer feedback
3. Assess and select livestock for genetic improvement	3.1 Assess the current breeding livestock for traits required for production and marketing 3.2 Analyse existing livestock subjective and objective information and select replacements from existing livestock 3.3 Evaluate the costs and benefits of natural mating, Artificial Insemination (AI) and Embryo Transfer (ET) to achieve genetic improvement 3.4 Check if livestock genetic improvement is required, and if so, select and purchase livestock
4. Carry out a breeding program	4.1 Develop and monitor workplace health and safety procedures to be followed while implementing animal breeding program 4.2 Conduct program according to relevant State or Territory legislative requirements and environmental, biosecurity and animal welfare requirements 4.3 Assess and improve facilities on the property for drafting and pregnancy testing, and insemination where applicable 4.4 Apply practices to improve joining and conception rates of a breeding program 4.5 Assist genetic selection by using equipment to aid in data collection and analysis 4.6 Collect feedback to improve production and market performance
5. Evaluate the breeding program against the	5.1 Assess compliance of the livestock to market specifications using information including feedback sheets and test results

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breeding goals	5.2 Assess the livestock produced against breeding goals

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	Identify and interpret textual information from a range of sources to identify relevant and key information about livestock improvement strategies
Writing	Use clear language, accurate industry terminology and logical structure to prepare workplace health and safety procedures
Numeracy	Use mathematical concepts to compare, analyse and evaluate numerical and financial data required for planning and evaluating livestock improvements

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCLSK508 Plan, monitor and evaluate strategies to improve livestock through genetics	AHCLSK507 Plan, monitor and evaluate strategies to improve livestock through genetics	Minor changes to application Major changes to performance criteria Foundation skills added Assessment requirements updated	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>