



Australian Government

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

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 must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has planned, monitored and evaluated strategies to improve livestock through genetics on at least one occasion and has:

- selected suitable market specifications for the livestock enterprise
- used relevant breeding values
- analysed profit for the breeding program
- developed selection criteria for a breeding program
- selected livestock for a breeding program on phenotype and genotype
- arranged Artificial Insemination (AI) and Embryo Transfer (ET) programs where applicable
- developed workplace health and safety procedures relevant to the breeding program
- implemented the breeding program
- applied relevant environment and biosecurity legislation, regulations and workplace procedures
- applied relevant workplace animal welfare legislation, codes of practice and procedures
- assessed farm facilities to carry out a breeding program
- kept breeding and production records
- interpreted feedback information.

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 planning, monitoring and evaluating strategies to improve livestock through genetics
- environment and biosecurity legislation and regulations and workplace practices relevant to planning, monitoring and evaluating strategies to improve livestock through genetics

- principles and practices for planning, monitoring and evaluating strategies to improve livestock through genetics, including:
 - heritability estimates for the selected characteristics
 - recording and understanding breed pedigrees where applicable
 - dominant genetic traits and genetic correlations
 - accuracy of the genetic potential of the selected breeding trait for the program
 - genetic defects
 - value of hybrid vigour and line breeding in a breeding program
 - impact of generation interval on genetic gain
 - selection criteria
 - market specifications targeted by the breeding program
 - long term breeding aims
 - pregnancy testing procedure
 - sources for genetic information, up to date program design and implementation procedures
 - animal welfare legislation codes of practice and procedures relevant to planning, monitoring and evaluating strategies to improve livestock through genetics

Assessment Conditions

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

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- specifications:
 - workplace requirements applicable to health and safety in the workplace for planning, monitoring and evaluating strategies to improve livestock through genetics
 - environment and biosecurity legislation and regulations and workplace practices applicable to planning, monitoring and evaluating strategies to improve livestock through genetics
 - suitable equipment applicable to work being undertaken on hand for assessment
 - industry standards, legislation and codes of practice and procedures for animal welfare applicable to planning, monitoring and evaluating strategies to improve livestock through genetics
- 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>