Assessment Requirements for AHCLSK507 Plan, monitor and evaluate strategies to improve livestock through genetics

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Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- analyse profit for the breeding enterprise
- select suitable market specifications for the enterprise
- develop selection criteria for a breeding program
- select livestock for a breeding program on phenotype and genotype
- assess farm facilities to carry out a breeding program
- use Breed Object index
- arrange Artificial Insemination (AI) and Embryo Transfer (ET) programs
- implement the breeding program
- feed livestock to ensure success of a breeding program
- organise drugs, animal identification and all equipment in clean working order in preparation for the program
- keep breeding and production records
- submit records and information for statistical analysis and registration of livestock
- handle livestock safely and humanely
- interpret feedback information

Knowledge Evidence

The candidate must demonstrate knowledge of:

- theory of cell division and the structure of DNA
- heritability estimates for the selected characteristics
- recording and understanding breed pedigrees
- dominant genetic traits and marker genes
- accuracy of the genetic potential of the selected breeding trait for the program
- genetic defects

- value of heterosis in a breeding program
- ethics and codes of practice for the welfare of livestock on the breeding program
- phenotype selection criteria
- market specifications targeted by the breeding program
- long term breeding aims
- pregnancy testing procedure
- veterinary and non-veterinary standard operating procedures
- sources for genetic information, up to date program design and implementation procedures

Assessment Conditions

Competency is to be assessed in the workplace or simulated environment that accurately reflects performance in a real workplace setting.

Assessors must satisfy current standards for RTOs.

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72