



Australian Government

Department of Education, Employment and Workplace Relations

AHCLSK312A Coordinate artificial insemination and fertility management of livestock

Release: 1

AHCLSK312A Coordinate artificial insemination and fertility management of livestock

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the process of undertaking the monitoring and mating of animals and defines the standard required to: prepare females for insemination; detect females in oestrus; sterilise equipment and prepare hygienic worksite prior to insemination procedures; arrange for the collection or ordering of semen; coordinate the artificial insemination of animals; store and maintain an inventory of commercial semen; coordinate and record the results of pregnancy testing.
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Application of the Unit

Application of the unit	This unit is likely to be carried out with limited supervision within enterprise guidelines.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

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1. Identify animal condition	1.1. Condition of females is accurately determined and scores are recorded according to recognised industry practices. 1.2. Females are ranked according to scores and nutritional requirements adjusted to facilitate optimum condition. 1.3. Feeding strategies and supplementation are appropriate to animals' environment and seasonal conditions. 1.4. Assessment of animal condition is made accurately and consistently. 1.5. Females can be guaranteed not pregnant before commencing the AI program.
2. Facilitate artificial insemination	2.1. Oestrus inducement and detection procedures are carried out according to established industry practice. 2.2. Artificial insemination equipment and facilities are prepared, and semen obtained. 2.3. Handling techniques that minimise stress and discomfort to livestock and meet Occupational Health and Safety (OHS) requirements are used. 2.4. Artificial insemination techniques are carried out, when required, according to recognised industry codes of practice 2.5. Hygiene procedures are applied to minimise risk of infection.
3. Review the process based on pregnancy testing	3.1. Females are monitored for signs of early abortion or return to oestrus. 3.2. Pregnancy detection techniques are applied at earliest opportunities 3.3. Records of mating, insemination and pregnancy status are recorded accurately, legibly and according to enterprise and industry requirements.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- identify hazards and implement safe work practices
- accurately condition score dry females

REQUIRED SKILLS AND KNOWLEDGE

- supervise animal mating and assist as appropriate
- sterilise equipment and prepare hygienic worksite prior to insemination procedures
- store and thaw commercial semen
- arrange and record the results of pregnancy tests
- clean up work site and safely dispose of waste
- use literacy skills to read, interpret and follow organisational policies and procedures, follow sequenced written instructions, record accurately and legible information collected and select and apply procedures for a range of tasks
- use oral communication skills/language competence to fulfil the job role as specified by the organisation, including questioning techniques, active listening, clarifying information and consulting with supervisors as required
- use numeracy skills to estimate, calculate and record routine workplace measures
- use interpersonal skills to work with and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- female conditioning
- oestrus cycles
- anatomy and physiology of male and female reproductive systems in animals
- factors affecting semen viability
- pregnancy testing
- animal health and abnormalities
- semen thawing techniques
- preparation requirements for artificial insemination of animals
- livestock movement and behavioural characteristics
- handling and assisted joining techniques, restraint methods and when to use them
- enterprise and industry identification system for livestock
- personal protective equipment and when and how it should be used
- relevant State/Territory legislation, regulations, codes of practice and enterprise requirements with regard to workplace OHS and animal welfare
- legislative and regulatory controls with regard to artificial insemination
- enterprise and industry policies with regard to artificial insemination and recording and reporting routines.

Evidence Guide

EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following: • prepare females for insemination • detect females in oestrus • sterilise equipment and prepare hygienic worksite prior to insemination procedures • arrange for the collection or ordering of semen • coordinate the artificial insemination of animals • store and maintain an inventory of commercial semen • coordinate and record the results of pregnancy testing.
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole.	
Animals may include:	• beef cattle • dairy cattle • alpacas • sheep • goats.

Unit Sector(s)

Unit sector	Livestock
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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