



Australian Government

AHCAIS304 Artificially inseminate livestock

Release: 1

AHCAIS304 Artificially inseminate livestock

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 prepare for and artificially inseminate livestock, complete documentation and records, and complete work.

The unit applies to individuals who artificially inseminate livestock under broad direction, and take responsibility for their own work.

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 biosecurity practices.

Accreditation requirements apply in some jurisdictions to performing commercial artificial insemination (AI). Users are advised to check with the relevant State or Territory regulatory authority.

Pre-requisite Unit

Nil

Unit Sector

Artificial Insemination (AIS)

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>
1. Prepare for insemination of animals	1.1 Organise resources and personnel to ensure optimal timing of the insemination process 1.2 Follow workplace animal welfare and hygiene practices, and biosecurity policies

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Access and store semen supplies 1.4 Prepare animals to maximise success of insemination program 1.5 Identify potential hazards and risks, and implement safe working practices to address risks 1.6 Select, fit, use and maintain personal protective equipment applicable to the task
2. Inseminate animals	2.1 Select, prepare and thaw semen 2.2 Monitor and check insemination equipment to ensure it is sterile, clean and used appropriately 2.3 Identify and observe intended recipient animal and check for signs of oestrus activity 2.4 Restrain and prepare intended recipient animal humanely and appropriately for insemination 2.5 Conduct insemination using techniques appropriate to animal type and applying correct hygiene procedures
3. Complete documentation and records	3.1 Document and record data on insemination process 3.2 Supply information to relevant authorities to promote research and improvements in industry practice 3.3 Identify and record modifications to herd program to assist continuous improvement processes
4. Complete work	4.1 Dispose of waste according to workplace procedures 4.2 Clean and maintain work area and equipment according to workplace procedures 4.3 Return animals to designated areas

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
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Skill	Description
Reading	Identify and interpret textual information from a range of sources to identify relevant and key information about livestock AI operations
Writing	Use clear language, accurate industry terminology and logical structure to prepare AI documents and records

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCAIS304 Artificially inseminate livestock	AHCAIS303 Artificially inseminate livestock	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>

Assessment Requirements for AHCAIS304 Artificially inseminate livestock

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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 successfully artificially inseminated at least ten separate animals with an accuracy of over 85 percent, and has:

- prepared for insemination
- prepared equipment and work sites
- identified and controlled potential hazards and risks according to workplace procedures
- followed relevant workplace health and safety and environmental and biosecurity legislation, regulations and workplace procedures
- followed workplace animal welfare and hygiene practices
- correctly selected and thawed semen for insemination
- restrained and inseminated animals using species specific techniques and recognised methods that reduce stress
- completed documentation and records
- cleaned work area and equipment.

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:

- environment and biosecurity legislation and regulations and workplace practices relevant to artificial insemination (AI) of livestock
- workplace requirements applicable to health and safety in the workplace for AI of livestock, including appropriate use of personal protective equipment (PPE)
- principles and practices of livestock AI, including:
 - basic breeding principles, including the oestrus cycle and its significance
 - relevant anatomy and physiology of female livestock
 - reproductive physiology and behaviour of female livestock

- pregnancy testing
- animal health and abnormalities
- semen handling, thawing and storage techniques
- preparation requirements for AI of animals
- animal movement and behavioural characteristics
- handling equipment and techniques, harnessing and restraint methods and when to use them
- workplace and industry identification system for animals
- animal welfare legislation, codes of practice and procedures and hygiene practices relevant to AI of livestock
- legislative and regulatory controls relevant to AI
- workplace and industry policies relevant to AI and recording and reporting routines
- resource and manpower requirements, industry standards, codes of practice and procedures for AI of the livestock species
- criteria and methods for determining conception rates
- methods and procedures for improving the success of AI and its impacts on herd performance
- procedures for cleaning and maintaining work areas and equipment
- documentation and record requirements.

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
- resources, equipment and materials:
 - work instructions and workplace procedures applicable to AI of livestock
 - female livestock
 - semen, materials, tools and livestock handling equipment applicable to AI of livestock
 - PPE applicable to AI of livestock
- specifications:
 - workplace requirements applicable to health and safety in the workplace for AI of livestock
 - environment and biosecurity legislation and regulations and workplace practices applicable to AI of livestock
 - industry standards, legislation and codes of practice and procedures for animal welfare applicable to AI of livestock
 - hygiene practices applicable to AI of livestock
- 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.

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