Title	Describe artificial insemination for mares, prepare an artificial vagina and inseminate a mare		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: demonstrate knowledge of an artificial insemination (AI) programme for mares; describe semen collection and breed society requirements, and collect semen using an artificial vagina (AV); describe semen handling and storage and evaluate and prepare the semen for insemination; prepare and inseminate the mare; and complete AI documentation.
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Classification	Equine > Equine Husbandry	
Available grade	Achieved	

Available grade	Achieved

## **Guidance Information**

- 1 Legislation relevant to this unit standard includes but is not limited to:
  - Health and Safety at Work Act 2015; and any subsequent amendments.
- 2 Definition

Workplace procedures are the documented policies and practices for safety and procedures within a particular workplace, and are consistent with the Code of Welfare: Horses and Donkeys (2018) available at <a href="https://www.mpi.govt.nz/dmsdocument/11003-horses-and-donkeys-code-of-welfare">https://www.mpi.govt.nz/dmsdocument/11003-horses-and-donkeys-code-of-welfare</a>.

- 3 For the purposes of assessment:
  - evidence for the practical components of this unit standard must be supplied from the workplace.
- The format of breed society documentation will vary according to the specific breed society but generally there will be forms which relate to the stallion and his services, the mares which are served, and the resulting foal born. Documentation can be obtained from the relevant breed society.

# Outcomes and performance criteria

#### **Outcome 1**

Demonstrate knowledge of an artificial insemination (AI) programme for mares.

## Performance criteria

- 1.1 Complete an application to conduct AI on a property according to breed society requirements.
- 1.2 Describe the obligations of the stud master to the mare owner in terms of breed society requirements.
- 1.3 Describe the facilities required for an Al programme.
- 1.4 Describe the advantages of Al.

Range convenience, safety, hygiene control, semen quality control, control of problem mares, and management.

## Outcome 2

Describe semen collection and breed society requirements, and collect semen using an artificial vagina (AV).

#### Performance criteria

- 2.1 Assemble and prepare the AV for use in accordance with manufacturer's instructions, and individual stallion's requirements in accordance with workplace procedures.
  - Range may include but is not limited to temperature, pressure.
- 2.2 Divert the penis into AV when stallion mounts, and hold the AV while semen is collected without causing undue interference to the stallion in accordance with workplace procedures.
- 2.3 Describe alternative methods to AVs for semen collection in terms of preparation requirements and suitability for the property.
  - Range phantom mare, hormoned mare, mare in oestrous.
- 2.4 Describe any breed society requirements in relation to the transportation and storage of fresh, frozen or chilled semen.

#### **Outcome 3**

Describe semen handling and storage and evaluate and prepare semen for insemination.

## Performance criteria

3.1 Describe methods for handling and storing semen according to breed society requirements in accordance with workplace procedures.

3.2 Evaluate semen under the microscope in accordance with workplace procedures.

Range evaluation may include but is not limited to – number of live sperm,

concentration, quality, motility, and volume;

evidence of four is required.

3.3 Prepare semen for use or storage and describe the purpose of extender in accordance with workplace procedures.

Range may include but is not limited to – hygiene, buffer, nutrition,

extension.

3.4 Apportion extended semen according to the number of live sperm gathered from the ejaculate in accordance with workplace procedures.

## **Outcome 4**

Prepare and inseminate the mare.

#### Performance criteria

- 4.1 Confirm the mare is in oestrous in accordance with results of teasing, scanning, or palpation in accordance with workplace procedures.
- 4.2 Prepare the mare to prevent spread of bacteria while inseminating in accordance with workplace procedures.
- 4.3 Gently guide the pipette through the cervix into the uterus and deposit semen in accordance with workplace procedures.

#### **Outcome 5**

Complete AI documentation.

## Performance criteria

- 5.1 Complete breed society documentation of horses involved in the AI programme according to breed society requirements.
- 5.2 Evaluate and record results of semen evaluation in accordance with workplace procedures.

Planned review date	31 December 2025

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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 October 1994	31 December 2022
Review	2	23 October 1996	31 December 2022
Review	3	24 June 1998	31 December 2022
Review	4	25 September 2003	31 December 2022
Review	5	26 November 2007	31 December 2022
Review	6	28 May 2020	N/A

Consent and Moderation Requ	uirements (CMR) re	ference	0018

This CMR can be accessed at <a href="http://www.nzqa.govt.nz/framework/search/index.do">http://www.nzqa.govt.nz/framework/search/index.do</a>.

# Comments on this unit standard

Please contact the Primary ITO <u>standards@primaryito.ac.nz</u> if you wish to suggest changes to the content of this unit standard.