



Australian Government

ACMGEN313 Carry out simple breeding procedures

Release: 2

ACMGEN313 Carry out simple breeding procedures

Modification History

Release	Comments
Release 2	This version released with ACM Animal Care and Management Training Package Version 4.1.
Release 1	This version released with ACM Animal Care and Management Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to plan mating and breeding, parturition or hatching and weaning of animals under supervision in ethical contexts. The unit can be contextualised to be species-specific.

The unit applies to individuals working in the animal care industry who carry out simple breeding procedures ethically in a range of small to large facilities. They work under broad direction, typically in a team environment, and are required to take responsibility for their own work, including carrying out assigned tasks, organising processes, solving routine problems and working to schedules.

All work must be carried out to comply with workplace procedures according to Commonwealth and state/territory health and safety and animal welfare regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

General Animal Care (GEN)

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>

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1. Select animals for breeding	1.1 Identify the basic principles of genetics related to breeding program requirements 1.2 Identify breeding program requirements and clarify with supervisor 1.3 Select animals for mating according to the breeding program and animal welfare and ethics requirements 1.4 Schedule examinations and tests to confirm suitability of selected animals according breeding program requirements 1.5 Monitor individual animals to determine the current stage of their reproductive cycle 1.6 Identify health and safety hazards associated with working with animals, assess the risks and implement control measures in case of emergency 1.7 Select, correctly fit and use appropriate personal protective equipment
2. Implement breeding procedures	2.1 Place animals selected for mating in an appropriate environment 2.2 Apply appropriate breeding systems according to the breeding program 2.3 Apply appropriate mating methods according to the breeding program 2.4 Monitor animals during and after the mating period to determine success of mating
3. Monitor post-mating progress	3.1 Observe and document changes in behaviour and condition, where appropriate, in breeding females to determine possible pregnancy 3.2 Schedule examinations and tests to determine pregnancy according to breeding program requirements 3.3 Estimate and document hatching or parturition dates
4. Prepare for and assist with birth or hatching	4.1 Provide a suitable environment to assist with the birth or hatching 4.2 Identify signs of hatching or parturition and report potential problems to supervisor or animal health practitioner 4.3 Provide appropriate monitoring to ensure the safe birth or hatching of young animals 4.4 Identify sex and measure offspring and document results 4.5 Monitor mother and offspring to ensure appropriate bonding,

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	feeding and behaviours, and report problems to supervisor
5. Wean animals	5.1 Modify offspring diets in preparation for weaning 5.2 Schedule vaccinations, other treatments and permanent identification protocols as required 5.3 Select and implement suitable weaning process according to workplace protocols 5.4 Carry out post-weaning management according to the breeding program 5.5 Update breeding records according to workplace requirements

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
Reading	Identify and interpret industry specific terminology from valid documents about breeding systems and mating methods
Writing	Use industry terminology and symbols to create accurate records of breeding, schedules for vaccinations, treatments and requirements for permanent identification markers
Numeracy	Identify and compare numerical information and data within written texts, including weights and other measurements

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ACMGEN313 Carry out simple breeding procedures Release 2	ACMGEN313 Carry out simple breeding procedures Release 1	Updated to correct the mapping information	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b75f4b23-54c9-4cc9-a5db-d3502d154103>

Assessment Requirements for ACMGEN313 Carry out simple breeding procedures

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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:

- carried out simple breeding procedures for at least two animals, including for each:
 - followed animal welfare and ethics requirements relating to breeding animals
 - applied safe work practices, including the selection, fit and use of personal protective equipment
 - monitored and observed animals and reported on breeding cycle
 - carried out breeding, hatching or parturition and weaning procedures
 - carried out post-weaning management
 - maintained accurate breeding program and animal health-related records.

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:

- overview of animal welfare and ethics requirements relating to breeding animals
- animal behaviour for the relevant species, including:
 - normal and maladaptive
 - mating and sexual behaviour
- male and female reproductive anatomy
- nutrition and health requirements of one or more species at various stages of their life and reproductive cycle
- purpose of keeping breeding data and records
- signs of animal wellbeing, illness or injury

- basic principles of genetics
- ways of determining current reproductive cycle status, through identifying specific indicators, including oestrus, spermatogenesis, sexual behaviour and aggression between males and evidence of mating
- breeding systems, methods and traits to produce the best possible breeding outcomes, health and wellbeing of animals related to species concerned
- functions and requirements of a breeding colony, where relevant
- housing requirements for mother and young of relevant species
- weaning and post-wean management procedures
- key requirements of workplace procedures for health and safety and animal welfare related to animal breeding
- key requirements of state/territory legislative and regulatory and licensing requirements related to animal breeding.

Assessment Conditions

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

- physical conditions:
 - an animal breeding facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - live animals as specified in the performance evidence that would be part of routine workplace breeding program
- specifications:
 - workplace procedures and documents required for the breeding tasks specified in the performance evidence, including a documented breeding plan for the relevant species or breeds
 - workplace procedures for health and safety and animal welfare.

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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