

CARRY OUT ANIMAL HUSBANDRY

UNIT CODE: APB/OS/AB/CR/06/6/A

UNIT DESCRIPTION

This unit specifies the competencies required to carry out animal husbandry. It involves carrying out housing and hygiene of laboratory animals, carrying out handling of laboratory animals and carrying out feeding of laboratory animals. It also involves demonstrating breeding of laboratory animals and carrying out anaesthesia and euthanasia.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT These describe the key outcomes which make up workplace function (to be stated in active)	PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements (to be stated in passive voice) <i>Bold and italicized terms are elaborated in the Range</i>
1 Carry out housing and hygiene of laboratory animals	1.1 Laboratory animal structures are designed as per laboratory animal requirements 1.2 Laboratory animal structures are constructed as per laboratory procedures 1.3 Laboratory animal structures are disinfected and cleaned as per laboratory procedures 1.4 Laboratory animal diseases are identified and managed as per laboratory animal requirements
2 Carry out handling of laboratory animals	2.1 Laboratory animals are handled as per laboratory procedures 2.2 Sexing of laboratory animals is carried out per laboratory procedures 2.3 Regulations governing handling of laboratory animals are determined as per laboratory animal rearing procedures
3 Carry out feeding of laboratory animals	3.1 <i>Types of animal feeds</i> are identified as per laboratory animal requirements. 3.2 <i>Feed presentation methods</i> are demonstrated as per laboratory animal requirements 3.3 Food containers are cleaned and disinfected as per laboratory procedures
4 Demonstrate breeding of laboratory animals	4.1 Laboratory animals for breeding are identified as per animal physical characteristic

	<p>4.2 Oestrous cycle of laboratory animals is determined as per animal physiology</p> <p>4.3 Gestation period of laboratory animals is determined as per animal physiology</p> <p>4.4 Litter size of laboratory animals is determined based on the laboratory animal</p> <p>4.5 Population control methods are identified and carried out as per laboratory animal requirement</p>
5 Carry out anaesthesia and euthanasia	<p>5.1 Anaesthetic agents are applied in laboratory animals as per pharmacological principles</p> <p>5.2 Dissection of laboratory animals is carried out as per laboratory procedures</p> <p>5.3 Humane killing methods are determined as per laboratory procedures</p> <p>5.4 Animal carcass disposal methods are demonstrated as per laboratory procedures</p>

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

VARIABLE	RANGE
Types of animal feeds include but not limited to:	<ul style="list-style-type: none"> • Water • Concentrates • Fodder
Feed presentation methods include but not limited to:	<ul style="list-style-type: none"> • Open bowl • Bottle method
Anaesthetic agents include but not limited to:	<p>Local</p> <ul style="list-style-type: none"> • Procain • Lidocain <p>General</p> <ul style="list-style-type: none"> • Barbituarates • Sodium pentobarbital

Humane killing methods include but not limited to:	<p>Chemical</p> <ul style="list-style-type: none"> • Carbondioxide gas • Chloroform <p>Physical</p> <ul style="list-style-type: none"> • Pithing • Beheading • Stunning • Gun shot
Disposal methods include but not limited to:	<ul style="list-style-type: none"> • Incineration • Burying

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

The individual needs to demonstrate the following skill

- Communication
- Interpersonal
- Analytical
- Critical thinking
- Problem solving
- Innovation
- Creativity
- Observation

Required Knowledge

The individual needs to demonstrate knowledge of:

- Microscopy
- Cytological techniques
- Histological techniques
- Specimen collection methods
- Storage of specimens
- Animal handling techniques
- Animal pathology

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

<p>1 Critical Aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Designed and constructed laboratory animal structures 1.2 Disinfected and cleaned laboratory animal structures 1.3 Identified and managed laboratory animal diseases 1.4 Handled laboratory animals properly 1.5 Sexed laboratory animals 1.6 Identified regulations governing handling of animals 1.7 Identified types of animal feeds 1.8 Demonstrated feed presentation methods 1.9 Identified laboratory animals for breeding 1.10 Determined oestrous cycle, gestation period and litter size of laboratory animal 1.11 Identified population control methods 1.12 Applied anaesthetic agents 1.13 Carried out dissection of laboratory animals 1.14 Determined humane killing methods 1.15 Demonstrated animal carcass disposal methods
<p>2 Resource Implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Well-equipped biology laboratory facility 2.2 Science laboratory procedures manual 2.3 Laboratory reagents and chemicals 2.4 Workshop tools 2.5 PPEs
<p>3 Methods of Assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Oral 3.2 Written 3.3 Observation 3.4 Third party 3.5 Practical test
<p>4 Context of Assessment</p>	<p>Competency may be assessed on the job, off the job or a combination of these. Off the job assessment must be undertaken in a closely simulated workplace environment.</p>
<p>5 Guidance information for assessment</p>	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>