



Australian Government

ACMVET402A Apply imaging routines

Release 2

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Modification History

Release	TP Version	Comments
2	ACM10v3	Reference to OHS legislation replaced with generic terminology
1	ACM10v1	Initial release. Supersedes and is not equivalent to RUV4602A

Unit Descriptor

This Unit of Competency covers the process of implementing and completing imaging routines, in accordance with established industry sequences and clinic policies and procedures, and follow specific instructions from the veterinarian.

Application of the Unit

This Unit applies to a veterinary nurse working under supervision of a veterinarian in a veterinary clinic or similar practice. In addition to legal and ethical responsibilities, all Units of Competency in the ACM10 Animal Care and Management Training Package have the requirement for animals to be handled gently and calmly. The individual is required to exhibit appropriate care for animals so that stress and discomfort is minimised.

Licensing/Regulatory Information

Licensing, legislative, regulatory or certification requirements may apply to this Unit. Therefore, it will be necessary to check with the relevant state or territory regulators for current licensing, legislative or regulatory requirements before undertaking this Unit.

Pre-Requisites

Nil.

Employability Skills Information

This Unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare imaging environment	1.1. Machine is positioned for the required procedure as instructed. 1.2. Image development equipment is prepared for use. 1.3. Support staff are rostered for the required procedure. 1.4. Radiation safety and workplace health and safety are followed throughout the procedure.
2. Prepare imaging equipment	2.1. Imaging equipment, factors, film and other required materials are prepared for use under direction and in accordance with clinic technique charts. 2.2. Appropriate chemicals and materials are prepared according to label instructions. 2.3. Contrast media are prepared in accordance with the veterinarian's instructions. 2.4. Personal protective equipment is prepared and fitted for all staff.
3. Implement imaging procedures	3.1. Thickness of the area to be imaged is measured. 3.2. Patient is prepared for imaging and protective and positioning aids are applied as instructed. 3.3. Image is produced in accordance with veterinary instructions subject to state or territory licensing. 3.4. Patient is monitored throughout the procedure and observations are recorded. 3.5. Patient is returned to housing or owner as instructed. 3.6. Common imaging faults are recognised and corrected.
4. Carry out post-imaging procedures	4.1. Images and outcomes are recorded and stored, which may include digital filing to computer records. 4.2. Used chemicals and debris are safely disposed of in accordance with clinic policy and legislative requirements. 4.3. Adequate fresh processing chemicals and other stock are maintained. 4.4. Imaging equipment is cleaned and maintained in accordance with manufacturers' specifications and clinic policies and procedures.

Required Skills and Knowledge

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

Required skills

Ability to:

- apply safe work practices in the use of radiography and other imaging equipment
- comply with relevant state or territory radiation safety Acts and regulations with regard to licensing, personal monitoring and recordkeeping
- employ safe, humane and environmentally responsible organisational systems and procedures when working with animals
- position animals appropriately
- read imaging technique charts
- use literacy skills to read, select and implement policies and procedures, including workplace health and safety, infection control and other clinic policies and procedures; implement sequenced written instructions; and record patient details accurately and legibly
- use oral communication skills/language required to fulfil the job role as specified by the clinic, including negotiating and questioning techniques, active listening, asking for clarification from the veterinarian, acknowledging and responding to a range of views
- use numeracy skills to complete basic arithmetic calculations and measure volumes
- use interpersonal skills to work with others and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities
- use problem-solving skills to use available resources and prioritise daily tasks
- use safe waste disposal procedures
- work as part of a team and in close working arrangements with the supervising veterinarian.

Required knowledge

Knowledge of:

- animal anatomy and physiology related to radiography and other imaging procedures
- animal anaesthetic monitoring and recording procedures
- common positioning techniques
- medical terminology in relation to directional and positioning terms
- radiography and other imaging equipment
- relevant state or territory legislation and regulations relating to radiation safety, workplace health and safety and animal welfare
- safe work practices in the use of radiography and other imaging equipment.

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 all of the requirements of the performance criteria, required skills and knowledge and the range statement of this Unit. Assessors should ensure that candidates can: • comply with relevant radiation safety Acts and regulations in regards to licensing, personal monitoring and recordkeeping • prepare equipment, chemicals and environment in a safe manner for scheduled routines • prepare personal protective equipment for all staff, including self • prepare patients for routines and then position them according to the veterinarian's instructions and the clinic technique chart • develop images • handle animals in a safe and ethical manner during examinations • communicate effectively with the veterinarian and clients • complete post-imaging routines and maintain accurate records. The skills and knowledge required to apply imaging routines must be transferable to a range of work environments and contexts and include the ability to deal with unplanned events.
Context of and specific resources for assessment	Assessment of this Unit is to be practical in nature and will be most appropriately assessed in a veterinary practice or in a situation that reproduces normal work conditions. There must be access to the appropriate equipment and/or resources to enable one to demonstrate competence.
Method of assessment	To ensure consistency of performance, competency should be demonstrated, to industry defined standards, on more than two occasions over a period of time in

	order to cover a variety of circumstances, patients, cases and responsibilities and over a number of assessment activities. The assessment strategy must include practical skills assessment. Suggested strategies for this Unit are: • written and/or oral assessment of candidate's required knowledge • observed, documented and first-hand testimonial evidence of candidate's application of practical tasks • simulation exercises that reproduce normal work conditions • third-party evidence • workplace documentation • portfolio. This Unit may be assessed in a holistic way with other Units of Competency relevant to the industry sector, workplace and job role.
Guidance information for assessment	Assessment methods should reflect workplace demands (e.g. literacy and numeracy demands) and the needs of particular target groups (e.g. people with disabilities, Aboriginal and Torres Strait Islander people, women, people with a language background other than English, youth and people from low socioeconomic backgrounds).

Range Statement

The range statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

<i>Imaging environment</i> preparation may include:	• cleaning the facilities and equipment • ensuring required machine or equipment is available and in good working order.
<i>Workplace health and safety</i> risks when working with animals may include:	• animal bites, kicks, scratches and crush injuries • biological hazardous waste and sharps disposal • handling of chemicals and medicines • gas leakage • inhalation of aerosol particles • intraocular contamination • manual handling, including carrying, lifting and shifting • needle pricks and cuts from other sharps • radiation exposure • release of infective agents (animal and human) • slippery or uneven work surfaces • zoonoses.
<i>Imaging equipment</i> may include:	• radiographic equipment: • X-ray machine • cassettes • films • table • darkroom chemicals • contract media, markers and labels • other imaging equipment: • digital X-ray • scintigraphy • Computed Tomography (CT) • Magnetic Resonance Imaging (MRI).
<i>Chemical</i> preparation may include:	• the need for accurate dilutions • the need for correct temperatures of the developing and fixing solutions.
<i>Contrast media</i> may include:	• injectable and oral preparations.
<i>Personal protective equipment</i>	• lead aprons and gloves

may include:	• mobile shields • personal radiation monitors (subject to legislative provisions) • thyroid shields.
Positioning aids may include:	• cradles • gags • ropes • sand bags • sedation.
Common imaging faults may occur due to:	• inappropriate restraint or movement of patient • failure to adequately maintain machine or equipment • problems with exposure settings or the development process.

Unit Sector(s)

Veterinary nursing