



Australian Government

ACMVET402 Apply imaging routines

Release: 2

ACMVET402 Apply imaging routines

Modification History

Release	Comments
Release 2	This version released with ACM Animal Care and Management Training Package Version 5.0.
Release 1	This version released with ACM Animal Care and Management Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to implement and complete imaging routines, including x-rays, ultrasound and endoscopes, according to established industry sequences and practice policies and procedures.

It applies to individuals who work as veterinary nurses, under the supervision of a registered veterinarian or qualified veterinary nurse with radiation operator licence in a veterinary practice. Veterinary nurses who perform imaging routines need to hold and apply specialised knowledge of animal anatomy and physiology.

Legislative and regulatory requirements apply to veterinary nurses but vary according to state/territory jurisdictions. Users must check with the relevant regulatory authority before delivery.

NOTE: The terms ‘occupational health and safety’ (OHS) and ‘work health and safety’ (WHS) generally have the same meaning in the workplace. In jurisdictions where the national model WHS legislation has not been implemented, RTOs must contextualise the unit of competency by referring to current OHS legislative requirements.

Pre-requisite Unit

Nil

Unit Sector

Veterinary Nursing (VET)

Elements and Performance Criteria

Elements	Performance Criteria
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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare imaging environment	1.1 Prepare the room and position machine for the required procedure as instructed 1.2 Follow radiation safety and WHS procedures
2. Prepare imaging equipment	2.1 Prepare imaging equipment and materials and check for common faults 2.2 Prepare appropriate chemicals and materials or digital system 2.3 Ensure all involved staff prepare and wear personal protective equipment
3. Implement imaging procedures under the supervision of a veterinary surgeon	3.1 Measure size and thickness of the area to be imaged and collimate beam and set factors, according to workplace procedures for radiography 3.2 Prepare patient and apply protective and positioning aids, according to workplace procedures 3.3 Produce x-ray image 3.4 Assist with positioning patient for ultrasound or endoscopy 3.5 Monitor patient and record observations 3.6 Recognise and correct common imaging faults 3.7 Return patient to housing or owner
4. Carry out post-imaging procedures	4.1 Record and store images and outcomes 4.2 Dispose of used chemicals or debris, according to workplace and environmental procedures 4.3 Maintain adequate fresh processing chemicals or other stock, according to workplace procedures 4.4 Clean and maintain imaging equipment

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	- Interpret imaging technique charts - Interpret relevant radiation safety information

Skill	Description
Oral communication	• Use industry appropriate language when communicating with team members
Numeracy	• Measure and prepare chemicals and materials accurately • Program information for digital imaging
Get the work done	• Address irregularities and contingencies in the context of the work role

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ACMVET402 Apply imaging routines Release 2	ACMVET402 Apply imaging routines Release 1	Corrected typographical error in Knowledge Evidence	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 ACMVET402 Apply imaging routines

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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 imaging routines for a minimum of three different animals, covering at least three different body parts
- assisted with one ultrasound or endoscopy procedure
- performed the activities outlined in the performance criteria of this unit during a period of at least 240 hours of work in a veterinary practice.

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:

- animal anatomy and physiology related to positioning animals for imaging
- animal sedation, restraint, anaesthetic monitoring and recording procedures related to imaging procedures
- preparation of room for different procedures, including table, positioning devices, restraints, position required equipment
- common positioning techniques for imaging procedures, including the use of aids, including:
 - cradles
 - gags
 - ropes
 - sand bags
 - sedation
- anatomical orientation terminology in relation to positioning animals for imaging

- use of contract media for imaging (injectable, rectal and oral preparations)
- types of imaging equipment, including:
 - radiographic equipment (X-ray machine, digital X-ray modalities, developing process either chemical or digital, cassettes, films, table, darkroom chemicals, contract media, markers and labels), positioning aids, digital processing equipment and software
 - other imaging equipment and processes (digital X-ray, nuclear scintigraphy, Computed Tomography (CT), Magnetic Resonance Imaging (MRI))
 - endoscopy
 - ultrasound
- common imaging faults, including:
 - set-up and film factors
 - poor positioning
 - inappropriate restraint or movement of patient
 - failure to adequately maintain and operate machine or equipment
 - problems with exposure settings or the development process
- state or territory legislation and regulations relating to radiation safety, work health and safety and animal welfare
- safe work practices in the use of radiography and other imaging equipment, including the use of appropriate personal protective equipment.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - in the workplace or an environment that accurately reflects a veterinary practice
 - resources, equipment and materials:
 - a range of real, live animals or animal models
 - equipment and resources typically available in a veterinary practice, including imaging equipment
- specifications:
 - manufacturer's operating instructions for imaging equipment
 - organisational policies and procedures, current legislation, regulations and relevant codes of practice
- relationships (internal and/or external):
 - interactions with a registered veterinarian or minimum of Certificate IV qualified veterinary nurse with radiation operator licence.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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