Modification history

Release	Comments
Release 1	This version released with ACM Animal Care and Management Training Package Version 3.0.

ACMAIMX12	Collaborate in planning sedation and anaesthesia requirements of large animals in emergency field situations
Application	This unit of competency describes the skills and knowledge required to contribute to assessing and evaluating sedation and anaesthesia needs of large animals in emergency field situations as part of a team responding to an incident. The unit applies to experienced people responding to incidents in field situations where large animals are compromised or injured. They are required to work with others to plan and discuss sedation and anaesthesia needs of animals to assist with the safety of people and welfare of animals in unpredictable and potentially dangerous situations. The administration of chemical restraints, including sedatives and anaesthesia, can only be undertaken or supervised directly, by a registered veterinarian. Legislative requirements relevant to animal welfare, veterinary science and firearms apply to this unit. Requirements vary between state/territory jurisdictions. Users are advised to check with the relevant authority for specific requirements.
Prerequisite Unit	Nil
Unit Sector	Animal Incident Management (AIM)

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Assess situation at incident scene	1.1 Identify and make contact with the incident controller, animal owner or person in charge at incident scene 1.2 Request information about the incident, the animal and proposed incident management or rescue operation 1.3 Assess environmental and human risks at the scene 1.4 Discuss likely animal behaviour and physical responses with the incident controller and team members 1.5 Discuss site requirements for recovery relative to incident scene, in-situ care or transport access 1.6 Determine, in consultation with others, required equipment from emergency medical tool kit including appropriate personal protective equipment (PPE) for safety, hygiene and biosecurity 1.7 Adhere to established incident management system and chain of command at the scene to ensure safety to self, others and animals

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
2. Assist with triage procedures	2.1 Contain or restrain the animal patient 2.2 Assess animal condition and extent of injuries in consultation with others 2.3 Discuss prognosis for life and viability of rescue or recovery with team members taking into consideration risks to people involved 2.4 Contribute to the decision to euthanase the animal, where necessary, and the most humane method for the situation in consultation with relevant personnel 2.5 Contribute to planning the method, timeframe and level of chemical restraint required to manage the animal in consultation with relevant personnel 2.6 Assess zoonotic disease risk and precautions required with incident controller, veterinarian and team members
3. Assist with emergency medical care during an incident	3.1 Discuss sedation plan specific to the animal and incident requirements and contingency or modifications to the plan if circumstances require 3.2 Assist with stabilising the animal and treating shock under veterinarian instructions 3.3 Discuss and plan with the veterinarian and relevant personnel the sedation and/or anaesthesia doses appropriate for the animal's condition to allow safer access and rescue of animal 3.4 Assist with monitoring the animal during the operation to ensure safety of operators and welfare of animal
4. Provide post incident care	4.1 Monitor signs of recovery of the animal following sedation or anaesthesia 4.2 Assist with further treatment or prehospital care according to needs of animal 4.3 Assist with organising the appropriate transport to veterinary facility if required 4.4 Assist with follow up care plan for persons responsible for the animal 4.5 Participate in team debriefing and contribute to support of others involved in the incident 4.6 Complete records according to regulatory and industry 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**
Numeracy	• Estimate weight of large animal and condition to determine appropriate dose of drugs required for animal
Interact with others	• Work independently and collectively as an effective team member with a strong sense of responsibility and ownership of agreed plans, decisions and outcomes
Navigate the world of work	• Understand relevant regulatory requirements and implications of these on own work • Recognise legal requirements related to chemical restraint and euthanasia and follow required processes
Get the work done	• Use analytical processes to contribute to a course of action, deciding between options and considering views of others

Unit Mapping Information			
Code and title current version	**Code and title previous version**	**Comments**	**Equivalence status**
ACMAIMX12 Collaborate in planning sedation	Not applicable	New unit	No equivalent unit

and anaesthesia requirements of large animals in emergency field situations			

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=b75f4b23-54c9-4cc9-a5db-d3502d154103

TITLE	Assessment requirements for ACMAIMX12 Collaborate in planning sedation and anaesthesia requirements of large animals in emergency field situations

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:
- discussed and contributed to the planning of sedation and anaesthesia requirements of a large animal in three different incident scene scenarios
- assisted with providing animal post-recovery advice for each of the three scenarios where sedation and anaesthesia were used.

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:

- incident management system and communication protocols used in large animal incident scenes
- veterinarian's role and responsibilities in large animal incident scene management
- incident scene risks, including:
    - large animal behaviour - fright and flight responses
    - environmental issues
    - dealing with people and managing expectations
- zoonotic disease risks, including:
    - neurological diseases - Hendra virus, Lyssavirus, Kunjin virus
    - gastrointestinal diseases - Samonella, Cryptospridium, Clostridium spp.
    - Q fever
    - Leptospirosis
    - Ringworm
    - Salmonella
    - Cryptosporidium
- personal protective equipment (PPE) requirements for specific situations
- sedation and anaesthesia (chemical restraints), including:
    - routes of administration for different situations - intravenous (IV), intramuscular (IM), oral
    - analgesics and drugs used for sedation and anaesthesia
    - time to take effect and duration period
    - devices used for difficult access, including air operated gun and pole operated syringes
    - dose levels appropriate for animal state of heightened excitement, fear and/or pain, including impact of adrenalin and need to ensure initial dose is effective and not rely on top ups
    - impact and limitations of sedatives and anaesthesia on different species
    - consideration of status of patient - old, exhausted, dehydrated, pain
    - sedation reversal
- level of sedation or anaesthesia recommended for:
    - allowing the animal to walk or move to assist with the extrication
    - fitting slings, lifting and dragging the animal
    - lengthy or delayed extrication requiring constant infusion
    - euthanasia
- animal behaviour and responses to sedation and recovery
- considerations in making the call to euthanase an animal
- large animal anatomy and relationship to animal incident rescue techniques
- euthanasia methods, including:
    - chemical overdose of anaesthetic agent (pentobarbitone)
    - gunshot or penetrating captive bolt in combination with exsanguination
- issues relating to euthanasia - insurance
- strategies to use in team and/or owner debriefing after an incident.

Assessment Conditions

Assessment of skills must take place under the following conditions:
• physical conditions:
    • skills must be demonstrated in a workplace setting or an environment that accurately represents workplace conditions
• resources, equipment and materials:
    • personal protective equipment (PPE)
    • field medical tool kit
    • incident scene scenarios involving large animals to address the performance evidence requirements.
 	
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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