



Australian Government

Department of Education, Employment and Workplace Relations

ACM50110 Diploma of Animal Technology

Revision Number: 1

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Modification History

Not applicable.

Description

This qualification is the industry qualification for persons aiming to operate at a senior or managerial level and undertaking animal technology functions within a biomedical research or production environment. It is highly recommended that while undertaking this qualification, the learner should have access to an animal technology workplace through either paid employment or substantial periods of work placement or work experience blocks.

Job roles

Job role titles covered by this qualification may include:

- Animal technology manager
- Facility manager
- Animal technologist
- Animal house manager
- Supervising animal technician.
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Pathways Information

Pathways into the qualification

Pathways for candidates considering this qualification include:

- direct entry
- after achieving ACM30110 Certificate III in Animal Studies
- after achieving ACM30210 Certificate III in Animal Technology
- vocational training, work experience or skills recognition.

Pathways from the qualification

After achieving this qualification candidates may undertake graduate level study to provide advanced skills and knowledge for further pathway advancement.

Licensing/Regulatory Information

Licensing, Legislative, Regulatory or Certification Considerations

Regulatory compliance with the Australian Code of Practice for the Care and Use of Animals for Scientific Purposes applies to some units of competency. In addition, individual units of competency may specify relevant licensing, legislative and/or regulatory requirements.

Entry Requirements

Not applicable.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> analyse and apply technical information analyse data and information to determine implications for work operations communicate with all people at all levels of the organisation in a professional manner complete a range of workplace documentation and records select communication technologies to support work operations demonstrate effective and appropriate communication and interpersonal skills when dealing with people develop work instructions, specifications and procedures select and apply documentation, communication and interpersonal strategies when dealing with internal and external clients select communication methods according to priority, cost and audience needs.
Teamwork	<ul style="list-style-type: none"> determine performance required to meet internal and external customer needs facilitate team achievements lead cooperative work relations with people of different ages, gender, race or religion manage organisational processes and provide problem solving support to others provide leadership.
Problem solving	<ul style="list-style-type: none"> identify and address potential and actual problems associated with work operations or in achieving work outcomes investigate problem causes and implement corrective strategies identify environmental features, regulations, legislative requirements and other factors which may affect the process or service to be provided use material and process knowledge to solve problems identify hazards and suggest control measures analyse animal welfare and safety practices.
Initiative and enterprise	<ul style="list-style-type: none"> determine and act on situations requiring further information or problem solving determine information gathering requirements to monitor work processes and procedures determine quality and other indicators of work outcomes

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	<ul style="list-style-type: none"> • identify efficient production processes • implement continuous improvement processes • provide leadership in the workplace.
Planning and organising	<ul style="list-style-type: none"> • demonstrate time-management skills • determine resource requirements • determine work timelines and quality service targets • identify hazards and implement appropriate hazard control measures • optimise work processes.
Self-management	<ul style="list-style-type: none"> • analyse implications of relevant Acts and regulations on work practices • conduct work reviews to determine improvement requirements • determine workplace procedures and instructions • monitor work operations and identify and act on any quality and performance issues • manage own time to meet deadlines.
Learning	<ul style="list-style-type: none"> • assess work data and information to identify areas for improved performance • be supportive, assertive and use interpersonal skills to encourage workplace learning • develop learning opportunities • gather feedback on own work to assess effectiveness in meeting objectives and integrate information into own practice • identify own training needs and seek skill development if required • maintain currency of industry skill and knowledge.
Technology	<ul style="list-style-type: none"> • ensure readiness and operational efficiency of workplace technology • help others use technology efficiently and safely • select computer software applications to perform work operations • work with technology safely and according to workplace standards.

Packaging Rules

Packaging Rules

A total of **twenty-three (23) units** of competency must be achieved as specified below.

- Complete **fifteen (15)** CORE units
- Complete **five (5)** ELECTIVE units from Group A
- Complete **three (3)** ELECTIVE units from Group B.

CORE: Complete the following fifteen (15) units

ACMATE301A	Work within an animal technology facility
ACMATE302A	Carry out institution containment and exclusion procedures
ACMATE303A	Prepare for and monitor anaesthesia in animals
ACMATE304A	Conduct non-surgical procedures on animals
ACMATE305A	Conduct euthanasia of research animals
ACMATE501A	Manage compliance in animal technology
ACMATE502A	Manage and maintain the health of research animals
ACMGAS301A	Maintain and monitor animal health and wellbeing
ACMGAS302A	Provide enrichment for animals
ACMGAS303A	Plan for and provide nutritional requirements for animals
ACMGAS304A	Carry out simple breeding procedures
ACMOHS501A	Manage occupational health and safety processes
ACMSPE312A	Provide basic care of rodents and rabbits
MSL973004A	Perform aseptic techniques
MSL924001A	Process and interpret data

ELECTIVE**Group A: Complete five (5) units from the following list**

ACMATE503A	Carry out post-mortem examination of a research animal
ACMATE504A	Administer anaesthesia and perform surgery on animals for scientific purposes
ACMATE505A	Carry out advanced breeding procedures
ACMATE507A	Manage the parturition of transgenic mice or rats

ACMATE503A	Carry out post-mortem examination of a research animal
ACMCAN404A	Develop, monitor and review behavioural management strategies
ACMSUS301A	Implement and monitor environmentally sustainable work practices
BSBRES401A	Analyse and present research information
MSL915002A	Schedule laboratory work for a small team
MSL916001A	Develop and maintain laboratory documentation
MSL916003A	Supervise laboratory operations in work/functional area
MSL916005A	Manage complex projects
MSL974007A	Undertake environmental field-based monitoring
MSL974011A	Prepare tissue and cell cultures <i>*(prerequisite MSL973004A Perform aseptic techniques)</i>

Group B: Complete three (3) additional ELECTIVE units from within ACM10 or from any other nationally endorsed Training Package or accredited course. Units selected must be aligned to qualifications at Certificate III or higher level and be relevant to work undertaken in an animal technology sector. Suggested units are:

ACMSPE301A	Provide basic care of amphibians
ACMSPE302A	Provide basic care of birds
ACMSPE303A	Provide basic care of common native mammals
ACMSPE304A	Provide basic care of dogs
ACMSPE305A	Provide basic care of domestic cats
ACMSPE306A	Provide basic care of marine fish
ACMSPE307A	Provide basic care of freshwater fish
ACMSPE308A	Provide basic care of marine aquatic invertebrates
ACMSPE309A	Provide basic care of terrestrial and freshwater invertebrates
ACMSPE310A	Provide basic care of mammals

ACMSPE301A	Provide basic care of amphibians
ACMSPE311A	Provide basic care of non-venomous reptiles