



Australian Government

AMPMGT401 Manage biogas facilities

Release: 1

AMPMGT401 Manage biogas facilities

Modification History

Release	Comments
Release 1	This version released with AMP Australian Meat Processing Training Package Version 8.0.

Application

This unit of competency describes the skills and knowledge required to evaluate and optimise the performance of a biogas facility.

The unit applies to individuals who are responsible for managing the process of capturing and utilising biogas as an energy source. In this role, workers would work autonomously and carry out some problem-solving activities.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Mandatory workplace requirements apply to the assessment of this unit.

Pre-requisite Unit

Nil

Unit Sector

Management (MGT)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Identify workplace biogas requirements	1.1 Identify biogas requirements for all relevant areas of the workplace 1.2 Determine workplace's ongoing biogas production capability and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	usage using agreed benchmarks 1.3 Analyse performance data and use to identify trends in workplace requirements
2. Monitor and control performance of biogas system	2.1 Establish performance standards and indicators using agreed benchmarks and best practice methods 2.2 Monitor impact of upstream conditions on biogas system 2.3 Develop and maintain record-keeping systems
3. Comply with regulatory requirements for biogas facilities	3.1 Comply with the appropriate regulations for gas, fuel and odour emissions 3.2 Meet the requirements of the relevant licensing agreements for biogas facilities 3.3 Follow health, safety and environmental regulations for hazards concerning biogas production, storage, transport and use
4. Comply with the requirements for safe design and operation of biogas facilities	4.1 Comply with the appropriate standards governing the design and construction of biogas systems 4.2 Develop and maintain a site-specific Safety Management Plan covering the risks and management associated with a biogas system

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 standards and regulations
Writing	Prepare applications and reports to meet regulatory requirements
Numeracy	Read and interpret data related to biogas output and performance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AMPMGT401 Manage biogas facilities	AMPA415 Manage biogas facilities	Unit sector code updated Performance Criteria clarified Performance Evidence and Assessment Conditions reworded for clarity Mandatory workplace requirements clarified	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5e2e56b7-698f-4822-84bb-25adbb8443a7>

Assessment Requirements for AMPMGT401 Manage biogas facilities

Modification History

Release	Comments
Release 1	This version released with AMP Australian Meat Processing Training Package Version 8.0.

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 managed at least one biogas facility, including:

- analysed biogas requirements of the workplace and the impacts on biogas collection and usage
- calculated and analysed biogas usage for planning purposes
- interpreted and reviewed data captured as part of performance monitoring
- identified and applied relevant workplace health and safety, environmental and licensing requirements.

Mandatory workplace requirements

All performance evidence specified above must be demonstrated in an operating biogas facility.

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:

- principles and methods of biogas production using anaerobic technology
- the components of a biogas collection, storage and usage system
- regulations and standards applying to biogas capture, storage and usage
- uses and requirements for biogas
- workplace procedures and systems for measuring the use of captured biogas.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:

- *skills must be demonstrated in an operating biogas facility*
- resources, equipment and materials:
 - *workplace record-keeping systems*
- specifications:
 - *workplace policies, procedures, processes and forms*
 - *legislation/codes of practice.*

Assessment for this unit must include at least three forms of evidence.

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

Mandatory workplace requirements

Mandatory workplace requirements are shown in *italic* text. Refer to the Companion Volume Implementation Guide for further information.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5e2e56b7-698f-4822-84bb-25adbb8443a7>