



Australian Government

MSMENV172 Identify and minimise environmental hazards

Release: 1

MSMENV172 Identify and minimise environmental hazards

Modification History

Release 1. Supersedes and is equivalent to MSAPMSUP172A Identify and minimise environmental hazards

Application

This unit of competency covers the skills and knowledge required to identify activities and/or materials that present an environmental threat and to take the appropriate action according to procedures.

This unit of competency applies to all personnel who are required to work within environmental regulatory requirements which are reflected in the organisation's policies and procedures.

It applies to an individual working alone or as part of a team or group and working in liaison with other team members and supervisors.

This unit of competency applies to all plants and areas of operation.

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

Pre-requisite Unit

Nil

Competency Field

Support

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes

Performance criteria describe the performance needed to demonstrate achievement of the element

1	Identify environmental threats	1.1	Recognise the type and severity of environmental threat posed by the materials and processes used for own work
		1.2	Identify ways materials used may enter the environment
		1.3	Identify sensitive features of the local environment and

			their impact on work practice and procedures
		1.4	Recognise abnormal or unacceptable emission levels
2	Identify workplace procedures and policies to minimise environmental threats	2.1	Identify workplace policy for environmental protection
		2.2	Identify environmental protection measures within standard operating procedures (SOPs) relevant to work
		2.3	State contact procedures for personnel involved in environmental response teams
3	Follow procedures to minimise environmental threats	3.1	Implement environmental protection measures in relevant procedures
		3.2	Report abnormal emissions/environmental issues to appropriate personnel
		3.3	Apply containment procedures in accordance with SOPs, where appropriate
		3.4	Implement waste management procedures and practices
		3.5	Follow safety procedures and use personal protective equipment (PPE)

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used, and include one or more of the following:

- legislative requirements, including work health and safety (WHS)
- industry codes of practice and guidelines
- environmental regulations and guidelines
- Australian and other standards
- licence and certification requirements

Procedures All operations must be performed in accordance with relevant procedures. Procedures are written, verbal, visual, computer-based or in some other form, and include one or more of the following:

- emergency procedures
- work instructions
- SOPs
- safe work method statements (SWMS)
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant

Tools and equipment Tools and equipment include:

- personal protective equipment (PPE)
- spill kits

Emissions Abnormal or unacceptable emission levels include one or more of the following:

- excessive noise
- light
- odours
- gases/vapours
- visible smoke/vapour
- liquid and solids
- particulates
- fumes

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>

Assessment Requirements for MSMENV172 Identify and minimise environmental hazards

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and must include the ability to:

- recognise and report environmental threats
- communicate using in-plant reporting systems (verbal, electronic or written)
- select and use containment equipment
- select and use personal protective equipment (PPE).

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- organisation procedures, including:
 - environmental protection and reporting requirements
 - safety, emergency and hazard controls
- type and severity of environmental threats, including contribution to climate change and other macro threats that can arise from materials and work processes used
- environmental protection measures required to minimise threats
- types of emissions relevant to job role and permissible levels.

Assessment Conditions

- The unit should be assessed holistically and the judgement of competence based on a holistic assessment of the evidence.
- The collection of performance evidence:
 - should occur over a range of situations which include typical disruptions to normal, smooth operations
 - will typically include a supervisor/third-party report focusing on consistent performance and problem recognition and solving. A supervisor/third-party report must be prepared by someone who has a direct, relevant, current relationship with the person being assessed and who is in a position to form a judgement on workplace performance relevant to the unit of competency
 - must include the use of appropriate tools, equipment and safety gear requiring demonstration of preparation, operation, completion and responding to problems

- may use industry-based simulation for all or part of the unit particularly where safety, lack of opportunity or significant cost is an issue.
- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment in a simulated environment should use evidence collected from one or more of:
 - walk-throughs
 - pilot plant operation
 - demonstration of skills
 - industry-based case studies/scenarios
 - ‘what ifs’.
- Knowledge evidence may be collected concurrently with performance evidence (provided a record is kept) or through an independent process, such as workbooks, written assessments or interviews (provided a record is kept).
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.
- The regulatory framework will be reflected in workplace policies and procedures and is not required to be independently assessed.
- Foundation skills are integral to competent performance of the unit and should not be assessed separately.
- As a minimum, assessors must satisfy the Standards for Registered Training Organisations 2015 assessor requirements.

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