



Australian Government

PMASUP420 Minimise environmental impact of process

Release: 1

PMASUP420 Minimise environmental impact of process

Modification History

Release 1. Supersedes and is equivalent to PMASUP420B Minimise environmental impact of process

Application

This unit of competency covers the skills and knowledge required to minimise the environmental impact of a plant and/or process. It applies to all resources used and products made by the plant, capital projects and improvements brought about by changes in work practices and procedures.

This unit of competency applies to experienced operators or those in similar roles who are required to apply in-depth knowledge of process and plant in order to develop practices or procedures for conserving resources and minimising pollution and waste that will deliver the most benefits.

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	Develop resource conservation practices and/or procedures	1.1	Identify the nature of resources used in the plant/process
		1.2	Identify the primary source of these resources
		1.3	Determine the impact of the depletion of these resources on the environment and society
		1.4	Determine which resources will yield a greater benefit from their conservation

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| | | 1.5 | Develop methods to reduce the consumption of these resources |
| | | 1.6 | Complete required documentation to implement change |
| 2 | Develop pollution minimisation practices and/or procedures | 2.1 | Identify the nature of pollutants produced by the plant/process |
| | | 2.2 | Determine the sources of these pollutants within the plant/process |
| | | 2.3 | Determine the impact of these pollutants on the environment and society |
| | | 2.4 | Determine which pollutant will yield a greater benefit from their reduction |
| | | 2.5 | Develop methods to reduce the production of this pollutant |
| | | 2.6 | Complete required documentation to implement change |
| 3 | Develop waste minimisation practices and/or procedures | 3.1 | Identify the nature of wastes produced by the plant/process |
| | | 3.2 | Determine the sources of these wastes within the plant/process |
| | | 3.3 | Identify the impact of these wastes on the environment and society |
| | | 3.4 | Determine which wastes will yield a greater benefit from their reduction |
| | | 3.5 | Develop methods to reduce the production of this waste |
| | | 3.6 | Complete required documentation to implement change |

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

All operations to which this unit applies are subject to stringent health, safety and environment (HSE) requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and HSE requirements, the HSE requirements take precedence.

- Procedures** All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, include one or more of the following:

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

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=9fc2cf53-e570-4e9f-ad6a-b228ffdb6875>