



Australian Government

PMASUP441 Decommission plant

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to PMASUP441C Decommission plant

Application

This unit of competency covers the skills and knowledge required to decommission an existing plant/pipeline or major plant area, and its associated equipment. It applies to plant/pipeline, such as on or offshore plant, wellheads, transmission pipelines or similar.

Decommissioning refers to the removal from service of plant/pipeline and equipment and its storage, 'mothballing' or disposal.

This unit of competency applies to senior technicians and those in similar roles who are required to apply in-depth knowledge of process and plant in order to plan and supervise the systematic shutdown, cleaning out and preparation for safe 'mothballing' of all of the plant and equipment.

The technician will have detailed operational and process knowledge but is not required to demonstrate 'hands on' operation of equipment as part of this competency.

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	Contribute to decommissioning planning	1.1	Apply process understanding to the planning process
		1.2	Identify the role and purpose of the plant and equipment
		1.3	Ensure the work is coordinated effectively with others involved on the work site

- 1.4 Identify process conditions and apply to hazard studies
 - 1.5 Undertake investigations following on from hazard studies
 - 1.6 Obtain materials necessary to complete the work and check against job requirements
 - 1.7 Obtain tools and equipment necessary to carry out the work and check for correct operation and safety
 - 1.8 Prepare plans to ensure that procedures are performed in the correct sequence
 - 1.9 Obtain approvals where necessary from appropriate authorities to ensure decommissioning process proceeds in accordance with the plan
 - 1.10 Complete all appropriate documentation
- 2 **Isolate and decontaminate equipment/unit according to procedures**
- 2.1 Interpret and apply decommissioning plan
 - 2.2 Identify and use appropriate safety equipment and materials
 - 2.3 Isolate and decontaminate equipment components
 - 2.4 Dispose of contaminated materials or components
 - 2.5 Complete required documentation
- 3 **Inspect, test and notify completion of work**
- 3.1 Select tools and equipment appropriate to the testing/inspection requirements and utilise in accordance with manufacturer specifications and legislative requirements
 - 3.2 Test/inspect in accordance with requirements
 - 3.3 Ensure compliance with work health and safety (WHS) legislative requirements for risk assessment prior to disposal
 - 3.4 Ensure any required additional work is undertaken/initiated
 - 3.5 Notify work completion

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.

Hazards

Hazards include one or more of the following:

- electricity
- gas
- gases and liquids under pressure
- structural hazards
- structural collapse
- equipment failures
- industrial (machinery, equipment and product)
- equipment or product mass
- noise, rotational equipment or vibration

- plant services (steam, condensate and cooling water)
- limited head spaces or overhangs
- working at heights, in restricted or confined spaces, or in environments subjected to heat, noise, dusts or vapours
- flammability and explosivity
- hazardous products and materials
- unauthorised personnel
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- extreme weather
- other hazards that might arise

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

Documentation Documentation includes one or more of the following:

- operating procedures
- WHS and environmental legislative requirements
- manufacturer specifications
- appropriate authority approvals (e.g. local councils, road authority, sewerage, stormwater, electricity, water and telephone)
- quality assurance inspection and test reports

Plant/pipeline systems This unit of competency includes all items of equipment and unit operations which form part of the pipeline system including, as relevant to a particular plant/pipeline:

- pipes
- valves
- operating units

- electrical and electronic components
- programmable logic controllers (PLCs)/distributed control systems (DCS) or other plant controls
- cathodic protection (CP)
- pressure/flow/temperature, regulation and meters

Tools, materials and equipment

Tools, materials and equipment include one or more of the following:

- hand tools
- power operated tools
- plant
- emergency equipment
- electrical and electronic test equipment
- gas detectors
- air compressor
- water pump

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>