



Australian Government

PMASUP432 Coordinate pipeline projects

Release: 1

PMASUP432 Coordinate pipeline projects

Modification History

Release 1. Supersedes and is equivalent to PMASUP432B Coordinate pipeline projects

Application

This unit of competency covers the skills and knowledge required to scope and coordinate pipeline projects. It applies to pipeline projects, such as:

- installation of new plant piping and equipment
- pipeline repairs and modifications (e.g. hot tap and stoppling operations, welding and cutting operations)
- upgrades of existing plant, piping and equipment
- commissioning of pipelines and facilities
- construction and upgrade of pipeline easements.

This unit of competency applies to operators who are required to prepare scoping documents, specifications and/or tenders; coordinate the project through the construction and commissioning phases; prepare reports; liaise with stakeholders; and ensure that the project conforms to all safety requirements.

This unit of competency does not require the operation of a central control panel.

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

Pre-requisite Unit

MSMPER300 Issue work permits

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.

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| 1 | Prepare project specification documents | 1.1 | Analyse the proposed project to establish contract specifications |
| | | 1.2 | Facilitate a documented hazard and risk assessment on the proposed project, identifying all potential hazards and risks |
| | | 1.3 | Draft specification documents stating the required work activity and health, safety and environmental requirements |
| | | 1.4 | Seek tenders for the specified works, review according to the relevant company procedure and appoint a winning tenderer |
| 2 | Prepare project schedule and documentation | 2.1 | Draft a project schedule to establish project timeframe, work activities and procurement of materials |
| | | 2.2 | Apply the job safety analysis (JSA) process to specific project activities reflecting any health, safety and environmental (HSE) issues identified in the project risk and hazard assessment |
| | | 2.3 | Write procedures and work instructions for project work activities from the outcome of the JSA process |
| 3 | Facilitate induction training for project | 3.1 | Discuss company/site-specific procedures and HSE requirements with contractors/employees carrying out the specified works |
| | | 3.2 | Review all persons who are inducted to ensure they understand the company/site procedures and HSE requirements |
| | | 3.3 | Inspect all equipment and machinery utilised to carry out the works to ensure these comply with company/site requirements |
| 4 | Monitor progress of project | 4.1 | Purchase materials required for fabrication and installation on the project and inspect to ensure all items meet project specifications |
| | | 4.2 | Monitor project works to ensure activities are carried out to project specification and minimal impact occurs on |

- existing operations and environment
- 4.3 Issue permits to work where project activities impact on existing pipeline operations
 - 4.4 Amend and/or modify original specifications and communicate to all parties involved according to the relevant company procedure
 - 4.5 Produce project reports updating project schedule progress, activities and HSE issues, and discuss with all parties involved.
 - 4.6 Draft operations manuals and compile vendor data manuals to assist in the operation of the equipment/facility after project completion
- 5 **Complete and commission project**
- 5.1 Commission the project to ensure all work carried out meets project specifications and operational requirements
 - 5.2 Restore the project site to meet environmental, heritage and operational requirements
 - 5.3 Cancel permits to work and sign-off at completion of works
 - 5.4 Check all documentation, records and drawings pertaining to the project, verify for accuracy and hand over to the relevant operational department

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:

- *AS 2885 (Set) Pipelines - Gas and liquid petroleum*
- *AS 4041-2006 Pressure piping*
- *AS/NZS 3000:2007 Electrical installations (known as the Australian/New Zealand Wiring Rules)*
- 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
- requirements set by authorities, such as:
 - Environmental Protection Authority (EPA)
 - Department of Primary Industry and Energy (DOPIE)
 - Departments of Minerals and Energy State and Territory
 - Worksafe Australia.

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

Sources of information Sources of information include, as appropriate to the project:

- regulatory framework
- procedures
- internal stakeholders
- pipeline alignment drawings
- process and instrument drawings
- workshop fabrication drawings

Inspection and testing Inspection and testing techniques include, as appropriate to the project:

- hydrostatic testing
- magnetic particle inspection
- radiography
- ultrasonic inspection
- dye penetrant inspection

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>