



Australian Government

PMAOPS501 Provide operational expertise to a project team

Release: 1

PMAOPS501 Provide operational expertise to a project team

Modification History

Release 1. Supersedes and is equivalent to PMAOPS501A Provide operational expertise to a project team

Application

This unit of competency covers the skills and knowledge required to provide operational expertise to a project team. It applies to discrete projects for new facility, expansion or other major works.

This unit of competency applies to senior technicians or those in similar roles who are required to apply in-depth knowledge of process and plant operations and problem solving in order to review project design for safety and operability considerations, provide advice on the operational requirements and implications of the project, and prepare operator training materials and operation procedures.

The provision of operations expertise to a project team provides a critical, practical link to the operational requirements of the planned works. Project teams usually comprise engineers with various technical specialisations (e.g. process, mechanical, electrical and control,) and project managers.

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

Pre-requisite Unit

Nil

Competency Field

Operations

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 operational requirements for the project	1.1	Review initial design specifications for project
		1.2	Analyse proposed requirements, including operational requirements, manning levels and expertise required for the proposed works

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| | | 1.3 | Document operation review as required by the project |
| 2 | Review design | 2.1 | Review design for operational safety of proposed works |
| | | 2.2 | Contribute operational expertise to systematic safety review process as part of the project team |
| | | 2.3 | Review instrumentation and controls for operability |
| | | 2.4 | Review control sequences and control screen layouts for operability considerations |
| | | 2.5 | Document operability reviews of design as required by the project |
| 3 | Develop procedures and training to meet project needs | 3.1 | Develop procedures for commissioning and/or operations |
| | | 3.2 | Develop training materials for operators based on design information |
| | | 3.3 | Review operator training and procedures with project design team |
| | | 3.4 | Document procedures, training and reviews as required by the project |

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:

- operability and related ergonomic issues
- electricity
- gases and liquids under pressure
- structural hazards
- equipment failures
- industrial (machinery, equipment and product)
- 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, dusts or vapours
- flammability and explosivity
- hazardous products and materials
- 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

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>