



Australian Government

MEM22001 Perform engineering activities

Release: 1

MEM22001 Perform engineering activities

Modification History

Release 1. Supersedes and is equivalent to MEM22001A Perform engineering activities.

Application

This unit of competency defines the skills and knowledge required to perform engineering activities at the paraprofessional level and covers the performance of technical aspects of engineering work where outcomes and performance measures are negotiated with appropriate personnel, technical experts and specialists in accordance with established engineering principles and practices. It applies to technical activities carried out within a range of engineering disciplines.

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

Pre-requisite Unit

MEM16006 Organise and communicate information

Competency Field

Management and organisation

Elements and Performance Criteria

| Elements | Performance Criteria |
|--|--|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i> |
| 1. Identify and implement engineering practices | 1.1 Follow standard operating procedures (SOPs) 1.2 Comply with work health and safety (WHS) requirements at all times 1.3 Identify engineering practices applicable to engineering activities 1.4 Research and evaluate factors, conditions and contexts integral to effective engineering practice 1.5 Research and evaluate the application of management practices and regulatory and legal systems to engineering practice 1.6 Incorporate elements of engineering practices into engineering activities |
| 2. Negotiate, document | 2.1 Consult with technical experts and specialists relevant to work |

| Elements | Performance Criteria |
|--|--|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i> |
| and monitor outcomes and performance measures | requirements 2.2 Evaluate and rank engineering options for activity 2.3 Negotiate and document performance measures for processes and outcomes with stakeholders |
| 3. Implement activities | 3.1 Negotiate and document work instructions with taskforce 3.2 Analyse hazards and risks associated with activity 3.3 Monitor and respond to progress in co-operation and consultation with stakeholders and taskforce 3.4 Conclude engineering activities in accordance with workplace and legislative requirements |
| 4. Evaluate career options and develop career development strategy | 4.1 Develop career options based on current engineering activities 4.2 Develop a curriculum vitae (CV) portfolio of current engineering activities that is also a framework for future engineering activities |

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.

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|---|---|
| Factors, conditions and contexts include: | <ul style="list-style-type: none"> academic development, work experience, ethical practices, indemnity, negotiation, consultation and human relations applicable local, regional, national and international economic, political and social contexts. |
| Management practices include: | <ul style="list-style-type: none"> strategic industrial management financial management work teams |

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| | <ul style="list-style-type: none"> • supervision and control. |
| Factors requiring continual review and maintenance include three or more of the following: | <ul style="list-style-type: none"> • academic development • work experience • ethical practice • indemnity • negotiation • consultation • human relations. |
| Regulatory/legal systems include: | <ul style="list-style-type: none"> • industrial relations • work health and safety (WHS) • enterprise based agreements • chemical registers • noise abatement • industrial law particular industrial applications and work environments. |

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>