



Australian Government

MEMPE005A Develop a career plan for the engineering and manufacturing industry

Release 1

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Modification History

New unit - Release 1

Unit Descriptor

This unit of competency is intended to provide the opportunity to research careers, and training and career path options in the manufacturing and engineering industry. It involves research into the range of activities the industry and occupational streams cover, including engineering opportunities in industries not generally considered as engineering or manufacturing. For example, maintenance people in hospitals, teachers, and so on.

Application of the Unit

This unit is designed for use in a pre-employment skills introduction program and is suitable for use in institutional-based vocational programs. Skills development will take place under direct supervision.

This unit is not to be used in a traineeship or apprenticeship training program or associated qualifications. It is only to be used in pre-employment programs and carries no credit towards apprenticeship/trade and other qualification types in manufacturing and engineering.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency. Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

1	Research engineering and manufacturing occupations	1.1	Identify <i>industries</i> involved in manufacturing and engineering
		1.2	Determine and describe the types of <i>occupations</i> in manufacturing and engineering industries
		1.3	Identify and list, including the requirements/methods of achieving, an appropriate qualification or qualifications for each occupation
2	Develop a career plan	2.1	Determine career paths within manufacturing and engineering
		2.2	Develop a training plan for entry into and progression through the determined career paths
		2.3	Assess and describe own skills and interests
		2.4	Develop a strategy for gaining access to an identified occupation
3	Review plan	3.1	Discuss plan with appropriate people
		3.2	Amend plan as necessary

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Required skills include:

- researching employment opportunities in manufacturing and engineering
- developing a personal career plan
- reviewing the career plan

Required knowledge

Required knowledge includes:

- the variety of manufacturing industries
- the variety of engineering industries
- industries that employ engineering people
- jobs/work roles in manufacturing and engineering
- types of learning institutions that support skills development in manufacturing and engineering

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria required skills and knowledge range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	A person who demonstrates competency in this unit must be able to research engineering and manufacturing career options in manufacturing, engineering and related industries.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Assessors must be satisfied that the candidate can: • work safely • explore employment opportunities in manufacturing and engineering • develop a personal career plan • review the career plan • clean and store equipment as instructed.
Context of and specific resources for assessment	• This unit must be assessed in a learning institution. • Assessment must cover the successful development of a career plan. • The skills covered by this unit would be demonstrated by an individual working alone under direct supervision. • The assessment environment should not disadvantage the candidate. • This unit may be assessed in conjunction with any other units addressing the safety, quality, communication and reporting associated with developing a career plan.
Method of assessment	• Assessment must satisfy the endorsed Assessment Guidelines of the MEM05 Metal and Engineering Training Package. • Assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure correct interpretation and application. • Assessment must confirm a reasonable inference that competency is not only able to be satisfied under the particular circumstance, but is able to be transferred to other circumstances.

Guidance information for assessment	Assessment processes and techniques must be culturally appropriate and appropriate to the language and literacy capacity of the candidate and the work being performed.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Industries	Research into industries should not be limited to manufacturing and engineering. The research should look at all types of industries that employ engineering personnel with all levels of qualifications. For example, apart from manufacturing and engineering, and this list is not exhaustive, engineering personnel are employed in: • hospitals • mines • power generation plants • maintenance of road plant • sugar mills • oil refineries • defense forces • marine vessels • railways • wine making
Occupations	Occupations may include but are not limited to: • general duties • production work • electrical, electronic, fabrication and mechanical trades • para-professional engineers • engineers

Unit Sector(s)

Competency field

Unit sector

Custom Content Section

Not applicable.