

Job description

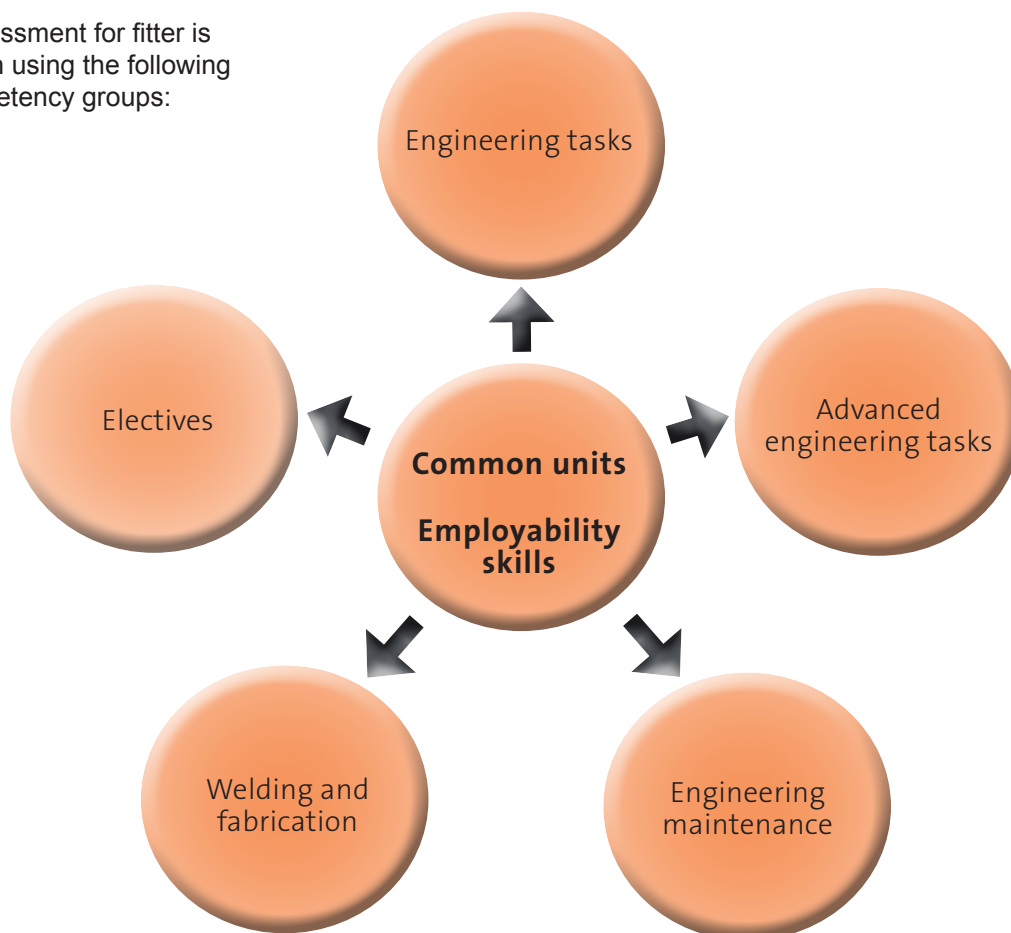
Fitters use tools, machines, equipment and engineering techniques to maintain and repair mechanical plant and equipment to operational standards. Work includes identification of defect or worn mechanical components or equipment, repair/replacement of worn/faulty components or equipment, and modifications. Parts may be repaired or manufactured using general application of workshop machines including lathes, milling and drilling machines. Thermal heating and cutting and welding equipment are also utilised.

Competency assessment

The VETASSESS assessment uses competency groups. These groups consist of units of competency for the Certificate III in Engineering - Mechanical qualification (MEM30205). They represent groups of tasks, skills and knowledge that are used to assess an applicant's competence in an occupation and are from the Metals, Engineering and Manufacturing Training Package (MEM05).

The minimum requirement for achievement of the Australian qualification is to demonstrate competence (employment and training evidence) in all of the units of competency. Please read the [Portfolio Builder](#) document for more information about how to complete a competency assessment for an Australian qualification.

The assessment for fitter is undertaken using the following competency groups:



Common units

Units of competency covering common skills and knowledge will be assessed with each of the competency groups. These common units relate to the workplace occupational health and safety requirements, work processes and procedures, engineering industry standards and requirements to work as a fitter in Australia.

Employability skills

The assessment includes the following employability skills: teamwork; communication; problem solving; planning and organising; learning; technology; self-management; initiative and enterprise. Competency units contain employability skills that will be assessed with each competency group.

Competency groups

The following is a breakdown of the competency groups shown in the diagram on page 1.

Common units

The following units of competency are common in all groups for assessment purposes.

MEM13014A	Apply principles of occupational health and safety in the work environment
MEM15002A	Apply quality systems
MEM15024A	Apply quality procedures
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment

Note: The tasks, skills, knowledge and employability skills required for the common units are assessed with the following competency groups.

Engineering tasks

Be able to perform and plan a range of engineering operations such as measurements, handling and interpreting technical drawings.

MEM12023A	Perform engineering measurements
MEM12024A	Perform computations
MEM14004A	Plan to undertake a routine task
MEM14005A	Plan a complete activity
MEM16008A	Interact with computing technology
MEM17003A	Assist in the provision of on the job training
MEM09002B	Interpret technical drawing
MEM11011B	Undertake manual handling
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
MEM12006C	Mark off/out (general engineering)

Advanced engineering tasks

Be able to perform lathe, milling, grinding and boring operations.

MEM07005C	Perform general machining
MEM07006B	Perform lathe operations
MEM07015B	Set computer controlled machines/processes
MEM12003B	Perform precision mechanical measurement
MEM18003C	Use tools for precision work

Engineering maintenance

Be able to diagnose, repair and maintain mechanical equipment.

MEM07001B	Perform operational maintenance of machines/equipment
MEM18010C	Perform equipment condition monitoring and recording
MEM18011C	Shut down and isolate machines/equipment
MEM18011C	Shut down and isolate machines/equipment
MEM18006C	Repair and fit engineering components
MEM18055B	Dismantle, replace and assemble engineering components

Welding and fabrication

Be able to apply weld and perform manual heating and thermal cutting.

MEM05007C	Perform manual heating and thermal cutting
MEM05012C	Perform routine manual metal arc welding
MEM05050B	Perform routine gas metal arc welding

Elective Areas

Elective areas are comprised of units that represent the work context or environment in which a fitter works. They are included specifically to meet particular work organisation and skill requirements of the fitter qualification.

You are required to provide evidence of your skills, knowledge and experience in **ONE** of the following elective areas as part of the assessment process.

Electives

Be able to provide evidence to support one (1) elective area.

Maintenance fitting

- MEM18004B Maintain and overhaul mechanical equipment
- MEM18005B Perform fault diagnosis, installation and removal of bearings
- MEM18007B Maintain and repair mechanical drives and mechanical transmission assemblies
- MEM18009B Perform leveling and alignment of machines and engineering components
- MEM18012B Perform installation and removal of mechanical seals
- MEM18013B Perform gland packing

OR

Machining

- MEM07003B Perform machine setting (routine)
- MEM07015B Set computer controlled machines/processes
- MEM07021B Perform complex lathe operations
- MEM07024B Operate and monitor machine/process
- MEM07029B Perform routine sharpening/maintenance of production tools and cutters

OR

Hydraulic fitting

- MEM18019B Maintain pneumatic system components
- MEM18020B Maintain hydraulic system components
- MEM18052B Inspect, test and maintain the operational function of components
- MEM18071B Connect/disconnect fluid conveying system components
- MEM18072B Manufacture fluid conveying conductor assemblies

Assessment outcome

If you **successfully** complete the assessment process you will receive the following:

- an **Australian Certificate III** qualification that lists the units of competency you successfully achieved.

If you are **unsuccessful** in the assessment process you will be issued:

- a **Statement of Attainment** that lists units of competency you have successfully achieved and those that were not achieved.

Licensing and Industry Information

A licence, registration or certification may be required for this occupation.

For further information regarding any licensing requirements refer to:

- Department of Immigration and Citizenship (DIAC) - Australian Skills Recognition Information (ASRI): www.immi.gov.au/asri
- Mutual recognition for occupational licences in Australia:
www.licencerecognition.gov.au

Additional Industry Information that may assist you can be found at:

- The myfuture website is Australia's national career information and exploration service, helping people to make career decisions, plan career pathways and manage work transitions:
<http://www.myfuture.edu.au>

Qualification Information

If you would like detailed information about the units of competency that make up this qualification please refer to the National Training Information Service (NTIS) website:

<http://www.ntis.gov.au>