



Careers in manufacturing: engineering mechanical

Technical and drafting

Mechanical engineering draftspersons and technicians assist in mechanical engineering research, design, manufacture, construction, operation testing and maintenance of machines, manufacturing equipment, mechanical installations and facilities.

Tasks include:

- preparing drawings, plans and designs for mechanical engineering work under the direction of mechanical engineers and engineering technologists
- assisting mechanical engineers and engineering technologists in the design of mechanical equipment and plant
- selecting tools and equipment
- assembling and installing new and modified mechanical assemblies, components, machine tools and controls, and hydraulic power systems
- estimating material costs and quantities, and machine requirements
- performing and directing field and laboratory tests
- collecting and analysing data, carrying out complex computations and preparing diagrams
- organising and supervising inspection and maintenance of machines and plant
- ensuring that designs and finished work are within specifications, regulations and contract provisions.

Areas of employment include:

- Mechanical engineer technician
- Mechanical engineer draftsperson

Mechanical engineering technician

Mechanical engineering technicians conduct tests of mechanical systems, collect and analyse data, and assemble and install mechanical assemblies in support of mechanical engineers and engineering technologists.

Specialisations:

- Boiler testing technician
- Hydraulic controls technician
- Mechanical laboratory technician
- Pipe testing technician

Relevant qualifications:

- Certificate III in Engineering (Technical)
- Certificate IV in Engineering
- Diploma of Engineering (Technical)
- Advanced Diploma of Engineering

Mechanical engineering draftsman

Mechanical engineering draftspersons prepare detailed drawings and plans of mechanical engineering work in support of mechanical engineers and engineering technologists.

Specialisations:

- Air conditioning drafting officer
- Heating and ventilating technical officer
- Tool design draftsman
- Tool designer

Relevant qualifications:

- Certificate III in Engineering (Technical)
- Certificate IV in Engineering
- Diploma of Engineering (Technical)
- Advanced Diploma of Engineering

This information sheet has been produced with assistance from the Australian Government.

