



Careers in manufacturing: electrical and electronics

Electronic engineering

Electronic engineering is a branch of engineering that deals with the design, fabrication, and operation of circuits, electronic devices and systems.

Occupations within the electrical engineering sector include:

- Electronic engineering draftsman
- Electronic engineering technician
- Electronic engineer
- Electronic equipment tradesperson
- Electronic instrument tradesperson.

Electronic engineering draftsman

An electronic engineering draftsman prepares detailed drawings and plans of electronic engineering work in support of electronics engineers and engineering technologists. Registration or licensing may be required.

Specialisations:

- Communications and data systems drafting officer
- Control systems drafting officer
- Electronics detail draftsman

Relevant qualifications:

- Diploma of Engineering (Advanced Trade)
- Advanced Diploma of Engineering

Electronic engineering technician

An electronic engineering technician conducts tests of electronic systems, collects and analyses data, and assembles circuitry in support of electronics engineers and engineering technologists. Registration or licensing may be required.

Specialisations:

- Aircraft electronics technical officer
- Communications engineering technical officer
- Communications engineering technician
- Computer numeric control technical officer
- Digital controls technical officer
- Flight surveyor
- Printed circuit board designer
- Process control technician
- Telemetry technician

Relevant qualifications:

- Diploma of Engineering (Advanced Trade)
- Advanced Diploma of Engineering

Electronic engineer

An electronic engineer designs, develops, adapts, installs, tests and maintains electronic components, circuits and systems used for computer systems, communication systems, entertainment, transport and other industrial applications. Registration or licensing may be required.

Relevant qualification:

- Degree

Electronic equipment tradesperson

An electronic equipment tradesperson installs, maintains and repairs electronic equipment and systems, such as audio and visual reproduction equipment, home entertainment systems, computers and electronic security systems.

Relevant qualifications:

- Certificate III in Engineering (Electrical Electronic Trade)
- Certificate IV in Engineering.

Electronic instrument tradesperson

An electronic instrument tradesperson installs, modifies, maintains and repairs electronic instruments and control systems. Registration or licensing may be required.

Relevant qualifications:

- Certificate III in Engineering (Electrical Electronic Trade)
- Certificate IV in Engineering.

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