



| NSW Department of Education

Electronics Trade Worker

The Electronics industry is seeing unprecedented global growth with implementation of technology that many people will not have seen. There are Electronics companies specialising in the production of equipment that has at its heart complex electronic control and monitoring systems; this is typified in unmanned vehicles and aerospace applications, high volume manufacturing plants, broadcast and medical as well as condition monitoring, agriculture, robotics, computer hardware and networks, electronic security systems, audio-visual / home-theatre and home automation. The Electronics trade worker will be exposed to a myriad of equipment in many and varied industrial and commercial settings including dark warehousing, driverless vehicles, aerospace, wireless communications, smart agriculture, renewable energy, consumer and entertainment, mining, health, the internet of things and industrial control.

What electronics trades workers do

Electronics trade workers examine and test machines, equipment, instruments, and electronic control and monitoring systems to diagnose faults. They use their knowledge of digital and analogue Electronics to troubleshoot, repair, maintain, upgrade, program and repurpose equipment in many industrial, commercial and consumer settings.

Will I get a job?

Moderate growth in this occupation is predicted, with 1,300 new jobs in Australia in the next four years, bringing the total to 30,800.

What will I earn?

\$1,404 median full-time weekly salary (before tax, excluding super).

Electronics trade workers carry out fault diagnostics using sophisticated test equipment and schematic diagrams. They adjust, repair and replace worn or defective parts and components incorporating skills including high reliability surface mount soldering and interpretation of voltage wave shapes. They use computer systems to program, set up functions or enter data in the process of installing electronic instruments and control systems. They may also connect voice and data communication equipment, monitor radio traffic and transmit and receive voice and data messages.

Some Electronics trade workers are employed as maintenance technicians in research laboratories, advanced manufacturing businesses, aerospace applications, robotics systems, agriculture, radio and television stations and professional audio/visual businesses and defence contracting companies.

Roles to look for

- Medical Equipment maintenance technician
- Radio technician
- Robotics technician
- Electronic equipment trades worker
- Electronic Instrument technician
- Consumer Electronics technician
- Electronics technician
- Electronics assembly technician

Main employing industries

- Electronic equipment repair and maintenance services
- Advanced Manufacturing
- Industrial and consumer Electronics

- install electronic instruments and control systems
- apply knowledge of electronic circuits to diagnose faults in control systems for automated equipment and processes.

You'll like this job if...

You enjoy troubleshooting and repairing complex systems. You can adapt to a fast paced technologically challenging industry. You're organised and prepared for unexpected breakdowns. You're good at precise communications and have an eye for detail.

A day in the life...

Work as an Electronics trade worker may involve these tasks:

- use test equipment to analyse voltages and currents in complex systems
- remove and replace critical and sensitive Electronic components on circuit boards
- maintain industrial machines, medical equipment and diagnostic instruments
- dismantle, reassemble, calibrate and test electronic equipment and machines
- advise users of correct operating procedures to enhance performance and prevent malfunctions
- Repair, maintain and install audio visual/home theatre equipment
- Program microcontroller systems
- maintain and operate radio frequency transmit and receive equipment

VET qualifications

The following government-subsidised qualifications are available in NSW:

Certificate III in Electronics and Communications (UEE30911)

- Up to 4 years full-time
- Available as a fee-free apprenticeship
- Graduates employed or in further study: 87.9%*

Certificate III in Computer Systems Equipment (UEE30211)

- Up to 4 years full-time
- Available as a fee-free apprenticeship
- Graduates employed or in further study: 87.9%*



To find out more regarding these related jobs, visit education.nsw.gov.au/job-guides.

Information sources

Income: Australian Government Department of Employment, Australian Jobs Report 2017, Occupation Matrix. ANZSCO ID: 2211. Earnings can vary greatly depending on the skills and experience of the worker, and the demands of the role. Career trend: Australian Government Department of Employment 2017 employment projections to May 2022. Graduate outcomes: National Centre for Vocational Education Research. *Approximately 6 months after they completed VET.

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