

# ELECTRICIAN



- Do you want to work in an exciting and ecofriendly industry that actively encourages women to participate and provides the following opportunities?
- develop specialised skills
- run your own business
- advance your career
- negotiate flexible hours
- advance your education
- potential to make a substantial income
- portability of qualification



## OVERVIEW OF INDUSTRY

The Electrotechnology industry in Australia includes design, commissioning, installation, testing, fault-finding, servicing, maintenance, assembly and repair of electrical, electronic, computer or climate change equipment, systems, networks and components. It extends across many industry sectors such as industrial, mining, energy, renewables, domestic, commercial, construction, data, communications, fire protection, security, manufacturing, lifts, maritime, as well as refrigeration and air-conditioning and more. New innovative technologies, automated and programmable control systems, digitisation, and information technology systems and equipment are reshaping the Electrotechnology industry, and it has become one of the most exciting cutting-edge and rewarding career choices in Australia.

## WHAT DOES AN ELECTRICIAN DO

Electricians have the specific expertise required to install and repair electrical systems. They design, assemble, install, test, commission, diagnose, maintain and repair electrical networks, systems, circuits, equipment, components, appliances and facilities.

Electricians are called to a job and perform their work on-site. The work site may be a new building or renovation site, a residence, a business, a workshop or a large industrial, manufacturing, civil or infrastructure project. The electrical trade suits people who are methodical, can interpret and comprehend standards and electrical specifications or instruction and who have excellent attention to detail. Commitment to safety regulations and compliance regimes is essential.

“I love working as an electrician because it is challenging, well paid, I can be my own boss, work with the latest technology and the hours can be flexible”

For further information or advise contact [www.uensw.au](http://www.uensw.au)



## ELECTRICIAN

### TASKS YOU MAY BE REQUIRED TO DO

- \*Interpret wiring diagrams, schematics, technical drawings, standards and specifications
- \*Install and check electrical support systems including cable trays, ducts, conduits or other specified support equipment or devices
- \*Install, test and commission/decommission electrical systems, electrical wiring, electrical equipment and associated parts and components
- \*Verify electrical systems comply with relevant standards or specifications
- \*Perform safe isolations and tests including energisation and de-energisation
- \*Diagnose and check electrical systems and equipment operation and compliance with requirements
- \*Repair, service, replace and modify/adjust existing, faulty, defective or non-compliant electrical system components and parts - e.g. wiring, protection systems, controls, equipment and associated accessories
- \*Use electrical/electronic test instruments to find faults

and ensure specifications are met prepare and plan safe work schedule, and where required, quotes or information on jobs for clients.

### Selection Criteria:

*The following criteria needs to be demonstrated -*

- \*Well-developed communication and people skills
- \*Effective English & Maths skills
- \*Well-developed problem-solving skills
- \*Ability to work in a team or independently
- \*Ability to distinguish between colours
- \*Positive attitude, punctual, acceptable presentation
- \*Physically fit and not afraid of heights, confined spaces, or working around machinery
- \*Understanding of, or interest in regulatory requirements.
- \*Practical skills for installing, repairing, and maintaining equipment

### Training Requirements and Pathways

**Pre- apprenticeship/traineeship qualification:** UEE22025 Certificate II in Electrotechnology (Career Start) is the entry level qualification for new entries and school- based trainees. Traineeships generally take between twelve to twenty-four months to complete.

**Apprenticeship qualification:** UEE30820 Certificate III in Electrotechnology Electrician

You may also need to obtain the following –

- construction induction card (white card)
- driver's license
- aptitude testing

Electricians typically require 4 years to complete the trade apprenticeship and once deemed competent by their RTO are issued the electrician's qualification.

### Electrical licence

On issuance of the qualification, they become eligible to apply to the local electrical regulator for an 'electricians' License.

### Income/opportunities/outlook

The Electrotechnology industry in Australia employs over 352,000 people with strong growth predicted for this occupation. Currently there are over 9,000 jobs for electricians advertised with a projection of 10.9% growth over the next 5 years.

### Current wages:

Apprentice: \$45,000-\$66,000

Salary range: \$54,000 - \$130,000 upwards depending on experience, location & employer

Current hourly rate charged by contractor: \$110 per hour Salary range: \$54,000 - \$130,000 upwards depending on experience, location & employer

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