

Electrician

Electricians design, assemble, install, test, commission, diagnose, maintain and repair electrical networks, systems, circuits, equipment, components, appliances and facilities for industrial, commercial and domestic purposes. They may also service and repair lifts, escalators and related equipment.

Job title examples

- Electrotechnology Systems Electrician
- Electrical Mechanic
- Appliance Repairer
- Lift Mechanic
- Renewable Energy Electrician

Other jobs in this field of work

What electricians do

- repair or replace faulty wiring and defective parts
- use electrical and electronic test instruments to trace and diagnose faults
- select, cut and connect wire and cable to terminals and connectors
- connect electrical systems to power supply
- test continuity of circuit
- measure and lay out installation reference points
- examine blueprints, wiring diagrams and specifications to determine sequences and methods of operation
- position and install electrical switchboards
- install, test and adjust electric and mechanical parts of lifts

Main employing industries

- Construction
- Mining
- Electricity, Gas, Water and Waste services
- Many electricians have small businesses contracting to larger firms.

Qualifications



The following government subsidised qualifications are available in NSW:

Certificate III in Appliance Service available as an apprenticeship or qualification

Certificate III in Electrical Fitting available as an apprenticeship or qualification

Certificate IV in Electrical –Instrumentation available as an apprenticeship or qualification

Certificate III in Electrical Machine Repair available as an apprenticeship or qualification

Certificate III in Electrotechnology Electrician available as an apprenticeship or qualification

Certificate IV in Electrotechnology - Systems Electrician available as an apprenticeship or qualification

Certificate III in Switchgear and Controlgear available as an apprenticeship or qualification

Apprenticeships and traineeships: Find out how to get an [apprenticeship or traineeship](#).

Course fees: You may be eligible for government subsidised training under Smart and Skilled. Go to the [Course Finder](#) to find training in your area, estimate your fee and find a training provider.

Job prospects and pay



- There are around 39,443 electricians working in NSW.
- Over the next four years, employment in this occupation is expected to decline in NSW.
- Employers report current shortages for electricians in Metropolitan Sydney, including commercial fit-outs and industrial maintenance.

Average weekly full time earnings (before tax):

- Electricians: \$1,400
- All occupations: \$1,200

Related jobs



- Airconditioning and Refrigeration Mechanic
- Electronics Trades Worker
- Electrical Distribution Trades Worker

To find out more regarding these related jobs, visit the [Job Guides Homepage](#).

Information sources

Occupations: Australian Bureau of Statistics, Australian and New Zealand Standard Classification of Occupations, 1220.0

Employment: Australian Bureau of Statistics, Labour Force, Australia, Detailed, Quarterly, 6291.0.55.003

Skills shortages: Department of Employment, Skill Shortage List NSW 2015-16

Job prospects: Centre of Policy Studies (CoPS), Victoria University, Employment Forecast Data for NSW 2015/16 to 2022/23

Earnings: Department of Employment, joboutlook.gov.au, based on ABS Characteristics of Employment Survey, August 2014