



Electrical, Utilities and Public Administration Training Council Inc

Electrotechnology Training Package - UEE07

Overview

Electrotechnology/communications – electrical, electronics, communications including appliance servicing, computer systems, data and information technology, instrumentation, lifts, motor assembly and overhaul, refrigeration and air conditioning and renewable sustainable energy.

The electrotechnology industry is a pervasive, complex and diverse industry that is rapidly expanding and changing. The challenging aspect of this industry is that participants are frequently exposed to cutting edge technology. Thus the industry offers an array of exciting career prospects.

The many varied vocations generally cover such work as design, research, management, estimation, assembly, installation, construction, diagnostics, maintenance, commissioning, programming, testing or repair of networks, systems, circuits, computers, equipment, components, appliances, facilities and the like in the electrotechnology engineering fields of electrical, including appliance servicing and motor winding; electronics; communications including broadcast data, sound and video, as well as telecommunications; information technology; computer systems; instrumentation; lifts; refrigeration and air conditioning; and renewable/sustainable energy.

Careers Advice

The technical operations of an electrotechnology company require the involvement of individuals in an array of vocations, e.g. trades assistant, assemblers, installers, field and workshop operatives, tradespersons, technicians, managers and self-employed contractors.

Examples of electrotechnology vocations are:

- Appliance servicers
- Business equipment technicians
- Computer and IT systems technicians
- Data communication technicians
- Electricians/electrical mechanics
- Electronics technicians
- Instrument/process controllers
- Life mechanic
- Motor overhaulers and assemblers

- Process assembly workers
- Radio, television and communication technicians
- Refrigeration/air conditioning mechanics
- Renewable/sustainable energy technicians
- Security and fire alarm technicians

The major occupations in the electrical trades/tradespersons are electricians, electronic and office equipment tradespersons, communications trades and refrigeration and air-conditioning mechanics. It also includes the occupations of:

Electrician, Electrical Fitter, Electrical Mechanic, Electronics Technician, Communications Technician, Computer System Technician, Refrigeration and Air Conditioning Mechanic, Information Technology Technician, Instrumentation Technician, Data and voice Technician, and Telecommunications Technician. Often encompassing Licensing, Registration, Sustainable Energy certification, career paths or pathways, apprenticeships, training plans and agreements, and the completion of training and assessment processes to confirm competence by registered training organisations.

The current rate of technological change in the industry is very high and is expected to increase. The use of 'smart' technology such as home automation and the integration of systems, including data, voice and video is becoming common in many sectors of the industry.

The electrotechnology industry is a multi billion dollar industry in Australia and a multi trillion dollar industry worldwide.

Pre Selection / Aptitude Testing

Any person aged 15 years or more can apply for an Apprenticeship.

Most employers require applicants who have completed at least Year 10 or a secondary school education program and have a sound base in high level mathematics.

Employers also prefer applicants who have successfully completed Years 11 or 12 of a secondary school education of a Post Secondary Education Pre-Employment Course and have a sound base in high level mathematics.

Training Packages & Qualifications

AQF Level	Qualification Title
Certificate I	Electrotechnology
Certificate I	Sustainable Energy (Electrotechnology)
Certificate II	Electrotechnology Business Support
Certificate II	Electrotechnology Data Communications
Certificate II	Electrotechnology Powerline (Vegetation Control)
Certificate II	Electrotechnology Remote Area Essential Services Operations
Certificate II	Electrotechnology Servicing
Certificate II	Electrotechnology Technical Support
Certificate III	Electrotechnology Assembly and Servicing
Certificate III	Electrotechnology Building Services
Certificate III	Electrotechnology Business Administration
Certificate III	Electrotechnology Communications
Certificate III	Electrotechnology Computer Systems
Certificate III	Electrotechnology Data Communications
Certificate III	Electrotechnology Entertainment and Servicing
Certificate III	Electrotechnology Instrumentation
Certificate III	Electrotechnology Refrigeration and Airconditioning
Certificate III	Electrotechnology Scanning
Certificate III	Electrotechnology Systems Electrician (including Lifts)
Certificate IV	Electrotechnology Apparatus Servicing
Certificate IV	Electrotechnology Building Services
Certificate IV	Electrotechnology Communicaitons
Certificate IV	Electrotechnology Computer Systems
Certificate IV	Electrotechnology Contracting
Certificate IV	Electrotechnology Entertainment and Servicing
Certificate IV	Electrotechnology Explosion-protection
Certificate IV	Electrotechnology Inspection and Audits
Certificate IV	Electrotechnology Instrumentation
Certificate IV	Renewable Energy
Certificate IV	Electrotechnology Radar Systems
Certificate IV	Electrotechnology Refrigeration and Airconditioning
Certificate IV	Electrotechnology Systems Electrician
Diploma	Computer Systems Engineering
Diploma	Electrical Engineering
Diploma	Electronic Engineering
Diploma	Instrumentation and Control Engineering
Diploma	Refrigeration and Airconditioning Engineering
Diploma	Renewable Energy

Advanced Diploma	Computer Systems Engineering
Advanced Diploma	Electrical Engineering
Advanced Diploma	Electronic Engineering
Advanced Diploma	Instrumentation and Control Engineering

For further detailed information, please visit EE-Oz website on <http://www.ee-oz.com.au/>

Registered Training Organisations

The Registered Training Organisation (RTO), e.g. TAFE institutions, universities with TAFE sectors, Skills Centres and similar enterprises that have registered to deliver vocational training for the given qualification in the National Generation Training Package.

Below, are a few of those RTOs currently registered in Western Australia taken from the NTIS website www.ntis.gov.au

College of Electrical Training

www.cet.asn.au

Tel: 9240 7700

Central TAFE

www.central.wa.edu.au

Tel: 9427 1247

Central West TAFE

www.centralwest.wa.edu.au

Tel: 9956 2814

Challenger TAFE

www.challengertafe.wa.edu.au

Tel: 9239 8384

Great Southern TAFE

www.gstafe.wa.edu.au

Tel: 9892 8719

Power Supply Services and Training

www.powertraining.com.au

Tel: 9367 2272

Swan TAFE

www.swantafe.wa.edu.au

Tel: 9442 8327

Licencing Information

Visas, Immigration and Refugees – Australian Skills Recognition Information (ASRI) - <http://www.immi.gov.au/asri/>

Australian National Training Authority (ANTA) – www.anta.gov.au

For those seeking information about full recognition of overseas qualifications:

www.edna.edu

or

Trades Recognition Australia (TRA) – www.workplace.gov.au/tra

Regulatory Information

Electrical Licensing - www.erac.gov.au

Communication Cabling – www.aca.gov.au/aca_home/contact_us/cabling/index.htm#Guides

NOHSC (OH&S) – www.noshc.gov.au

Industrial Relations – www.wagenet.gov.au/WageNet/HomePage/homepage.asp