

Electrotechnology Industry Overview

The electrotechnology industry impacts on almost every aspect of daily life. The technology ranges from traditional light and power, hardware platforms and networking automation to virtual enterprise, the internet and fibreoptics. The spread of new information processing and communication technologies means that the industry is developing rapidly.

The industry includes the installation, servicing, repair and maintenance of electrical and electronic equipment for industrial, commercial and domestic purposes. It comprises communications, distribution and transmission, electrical generation and computer data and communications cabling systems and Sustainable/Renewable Energies. The telecommunications and information technology aspects of the industry are becoming increasingly important as the knowledge economy alters the way businesses operate, as is Sustainable Energy Practices and Renewable Energies are on our environment.

People employed in the electrotechnology industry can be found working in most sectors. Principal areas include:

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Construction

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Communication services

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Electrical generation, transmission and distribution

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Manufacturing

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Mining

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Chemical

-

Commercial

-

Industrial

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Housing/domestic

-

Resources

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Transport and logistics

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Maritime

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Health and community services

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Wholesale and retail

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Sustainable and Renewable Energies

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.

