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# Electrical Engineering

## Area of Practice / Area of Engineering

Electrical engineering deals with electricity generation, transmission, distribution, electrical equipment manufacture, instrumentation and control systems.

Some of the indicative activities that may be undertaken when practising electrical engineering are:

- design
- development
- installation
- maintenance
- manufacture
- operation
- research.

These activities could take place in any of the following electrical engineering domains:

- aerospace
- agriculture
- automotive
- aviation
- biomedical
- buildings
- bulk handling
- chemical processing
- communications
- defence
- electrical power generation and distribution
- food processing
- health
- manufacturing and processing
- minerals processing
- mining
- natural gas distribution
- oil and gas
- pharmaceuticals
- rail transport



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- road transport
- ship building
- shipping
- water and wastewater
- urban infrastructure.

To find out more about electrical engineering visit our [Engineering communities](#) page.

## How to apply

This area of practice is available to those who want to become Chartered and is available to all occupational categories. Learn more about becoming [Chartered](#) and how to apply.

If you want to add electrical engineering as an additional area of practice, [email](#) us to enquire about the process.

## Registration eligibility

Electrical engineers may need to hold statutory registration in an Area of Engineering in accordance with relevant legislation. Check the [State registration](#) page for more information.