



# Industrial electrician

## Study area information for apprentices

### Dress requirements / PPE

- Protective eye wear
  - No sunglasses are permitted in the workshop
  - Safety glasses must be clear and meet Australian Safety Standards
  - Personal eye protection with eye and face protectors are necessary for occupational applications
- Safety steel-capped work boots must be worn at all times
  - Heavy leather uppers and heavy duty soles
  - No sand shoe volley type of footwear allowed (even with steel caps)
- 100% cotton protective workwear clothing including long sleeve shirts and pants

### Stationery

- Scientific calculator (mobile phone not acceptable)
- A4 ruled notebooks (with removable pages)
- 300mm rule
- 2H pencils
- Sharpener
- Eraser
- Pens (blue, black and red)
- USB thumb drive (minimum 8GB)
- Highlighter pens
- Drawing compass
- 180° protractor
- 30-60 set square
- Mathomat

## Australian standards

Hard copies of the below current versions of Australian Standards can be purchased from <https://infostore.saiglobal.com>. You may bring these standards with you from your own organisation's online portal rather than direct purchase from SAI Global. The standards must be brought to all TAFE attendances.

- AS/NZS 3000 Wiring Rules
- AS/NZS 3008:1:1 Electrical installations - Selection of cables for alternating voltages up to and including 0.6/1 kV - Typical Australian conditions
- AS/NZS 3017 Electrical installations - Verification guidelines
- AS/NZS 4836 Safe working on or near low-voltage electrical installations and equipment
- Western Australian Electrical Requirements (WAER) to be printed and available free from <https://www.commerce.wa.gov.au/publications/wa-electrical-requirements-waer>

## Licences

- Both the employer and the apprentice have the responsibility to ensure that an electrician's training licence is obtained before the apprentice carries out any electrical work. It is essential for you to attend with your current Training Licence. The guidelines and forms are available from <https://www.commerce.wa.gov.au/energysafety/electrical-licensing-forms>
- All electrical workers and apprentices must have current first aid and resuscitation skills. Attending a recognised course is recommended annually. It is a requirement that all apprentices attend with a current first aid certificate (minimum HLTAID003 - Provide first aid or equivalent)

## Tools

It is highly recommended to bring your own insulated (1000V) hand tools e.g. pliers, screwdrivers, wire strippers, and multimeter (minimum CAT III 1000V/ CAT IV 600V).

## Textbooks

Value pack: Electrical Principles for the Electrical Trades and Electrical Wiring Practice

**Authors:** J.Jenneson and Keith Pethebridge

**ISBN:** 9781760421038

<https://www.mheducation.com.au/9781760421038-aus-value-pack-electrical-principles-electrical-wiringpractice-connect-plus>