



Electrician (Special Class)

ANZSCO Code: 341112



Occupation Description

Special Class Electricians service and repair intricate and complex electrical and electronic circuitry.

Their job involves:

- » determining the load requirements for electrical wiring in buildings and premises using blueprints, wiring diagrams, codes and specifications to determine sequences and methods of operation
- » measuring and laying out installation reference points
- » selecting, cutting, connecting and installing wire and cable to terminals and connectors
- » using electrical and electronic test instruments to trace and diagnose faults
- » repairing and replacing faulty wiring and defective parts
- » positioning and installing single and three-phase electrical switchboards
- » connecting electrical systems to power supply
- » testing continuity of circuit
- » installing, testing and adjusting electric and mechanical parts of lifts
- » installing, testing and commissioning solar photo voltaic (PV) power generation systems.

How will I be assessed?

Stage 1: Documentary Evidence Assessment

We will review your documentary evidence to ensure it meets the employment and training requirements and indicates that you have the necessary skills, knowledge and experience as a Special Class Electrician.

You can find more information about the employment and training requirements, and the documents required in the Pathway 1, Pathway 2 and Evidence guides on our [website](#).

Stage 2: Technical Interview

If you are successful in Stage 1, you will complete a technical interview with our assessor. The assessor will ask you questions about the knowledge required to work in your trade in Australia and how you apply that knowledge.

For more information about the technical interview, see Technical Assessment Guide on our [website](#).

Stage 3: Practical Assessment

If you are successful in Stage 2, an assessor will assess you via a Practical Assessment where you will complete a series of work-based tasks that demonstrate your trade skills.

For more information on Stage 3, see the Technical Assessment Guide on our [website](#).

What skills and knowledge do I need?

The qualification relevant to this occupation is **UEE30820 Certificate III in Electrotechnology Electrician**.

To be awarded this qualification, you must demonstrate your skills and knowledge in the units of competency listed in the table on page 3. Each unit of competency defines a selection of knowledge and skills required in Australian workplaces.

CORE UNITS	
Code	Title
HLTAID009	Provide cardiopulmonary resuscitation
UETDRRF004	Perform rescue from a live LV panel*
UEECD0007	Apply work health and safety regulations, codes and practices in the workplace
UEECD0016	Document and apply measures to control WHS risks associated with electrotechnology work*
UEECD0019	Fabricate, assemble and dismantle utilities industry components*
UEECD0020	Fix and secure electrotechnology equipment*
UEECD0044	Solve problems in multiple path circuits*
UEECD0046	Solve problems in single path circuits*
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications*
UEECO0023	Participate in electrical work and competency development activities
UEEEL0003	Arrange circuits, control and protection for electrical installations*
UEEEL0005	Develop and connect electrical control circuits*
UEEEL0008	Evaluate and modify low voltage heating equipment and controls*
UEEEL0009	Evaluate and modify low voltage lighting circuits, equipment and controls*
UEEEL0010	Evaluate and modify low voltage socket outlets circuits
UEEEL0012	Install low voltage wiring, appliances, switchgear and associated accessories*
UEEEL0014	Isolate, test and troubleshoot low voltage electrical circuits*
UEEEL0018	Select wiring systems and select cables for low voltage electrical installations*
UEEEL0019	Solve problems in direct current (d.c.) machines*
UEEEL0020	Solve problems in low voltage a.c. circuits*
UEEEL0021	Solve problems in magnetic and electromagnetic devices*
UEEEL0023	Terminate cables, cords and accessories for low voltage circuits*
UEEEL0024	Test and connect alternating current (a.c.) rotating machines*

UEEEL0025	Test and connect transformers*
UEEEL0039	Design, install and verify compliance and functionality of general electrical installations*
UEEEL0047	Identify, shut down and restart systems with alternate supplies*
UEERE0001	Apply environmentally sustainable procedures in the energy sector

ELECTIVE UNITS

Code	Title
Option 1 – Voice and data communications	
UEEDV0005	Install and maintain cabling for multiple access to telecommunication services
UEEDV0008	Install, modify and verify coaxial and structured communication copper cabling*
Option 2 – Electrical installations	
UEEEL0049	Install and maintain emergency safety systems*
UEEEL0076	Inspect, test and maintain emergency lighting systems
UEEEL0075	Inspect, test and maintain emergency alarm systems and equipment*
UEECO0002	Maintain documentation
Option 3 – Electrical control	
UEEIC0047	Use instrumentation drawings, specifications, standards and equipment manuals
UEEIC0002	Assemble, enter and verify operating instructions in microprocessor equipped devices
UEEIC0013	Develop, enter and verify discrete control programs for programmable controllers*

You must demonstrate competency in the core and 1 group of elective units of competency.

Units HLTAID009 and UETDRRF004 are not assessed and will need to be completed in Australia.

NOTE: * indicates that a unit requires a pre-requisite/s

How do I find out more about each unit of competency?

You are strongly encouraged to review each of the units of competency shown above.

To do this:

1. Go to the following website:
<http://training.gov.au/Search>
2. Enter a unit code (e.g. UEECD0007) into the 'Keyword search' search box
3. Click on the 'Search' button
4. Read the Unit of Competency information.

What will I receive after the assessment?

If you **successfully** complete Stage 3 you will receive:

- » A Skills Assessment Result Letter to support your visa application.

And if applying under Pathway 1:

- » An Offshore Technical Skills Record (OTSR) that lists the units of competency in which you have been assessed as having successfully demonstrated the required trade skills and knowledge.

If you are **unsuccessful** in Stage 3 you will receive:

- » A Skills Assessment Result Letter outlining the reasons why you were deemed not to have met the relevant competencies.

What is an Offshore Technical Skills Record (OTSR)?

The OTSR is a form of technical skills documentation that VETASSESS issues to individuals who successfully complete the practical skills assessment in UEE30820 Certificate III in Electrotechnology Electrician. The OTSR lists the technical skills and knowledge demonstrated against the qualification and any gaps that need to be bridged to meet the full standard, for example the Australian wiring rules for electrical trades.

The regulators for the Australian electrical industry have agreed to provide a provisional (restricted) licence against the OTSR to allow you to work under supervision in Australia till you meet the requirements for a full (unrestricted) licence. You can apply through state and territory regulators for a provisional licence and might need to meet other non-skill requirements as well. The requirements for obtaining a licence vary depending on the state or territory you want to work in. For further information about licensing requirements refer to <https://www.tradesrecognitionaustralia.gov.au/electrician-general-and-special-class>.

To receive a full licence and a UEE30820 Certificate III in Electrotechnology Electrician, you will need to undertake:

- » a minimum Australian context gap training, and
- » a period of supervised employment in your trade.

Registered Training Organisations (RTOs) in Australia, including TAFE institutes, offer the gap training course. You can find more information about gap training on the [Energy Skills Australia website](#).

Once you have successfully completed the gap training and been issued with a Statement of Attainment by the RTO, you can either:

- » Apply to the RTO where you completed your gap training for your Certificate III qualification. You can then present this qualification to the relevant licensing regulator to be issued a full licence, OR
- » Apply to VETASSESS for your Certificate III qualification. VETASSESS will review your gap training documentation and issue you with the required Certificate III qualification. You can present this qualification to the relevant licensing regulator to be issued a full licence. Please note that VETASSESS will charge an administrative fee for issuing the qualification and you might need to meet additional requirements.



» Where can I find more information?

[Please refer to our website](#)

If you have further questions, contact us at:

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