

UEE22107**Certificate II in Sustainable Energy (Career Start)****National Qualification Number UEE22107****Scope**

This qualification covers competencies for work entry program providing grounding in safety and basic skills and knowledge for work in any electrotechnology discipline.

Completion requirements

The requirements for awarding this qualification are that the following are successfully achieved:

- All of the Core competency standard units;
- The required number of Stream Core competency standard units;
- The required number of Elective competency standard units as prescribed in the respective Schedule; and
- All the required prerequisite competency standard units have been met as required.

Core Competency Standard Units

All Core competency standard units to be achieved

UEENEEE001B	Apply OHS practices in the workplace
UEENEEE003B	Solve problems in extra-low voltage single path circuits
UEENEEE004B	Solve problems in multiple path d.c. circuits
UEENEEK012B	Provide basic sustainable energy solutions for energy reduction in domestic premises
UEENEEK013B	Apply sustainable energy practice in daily activities
UEENEEK014B	Promote sustainable energy practice in the community

Stream Core Competency Standard Units

At least 1 of the following competency standard units to be achieved

UEENECC001B	Maintain documentation
UEENECC010B	Deliver a service to customers
UEENEED001B	Use basic computer applications relevant to a workplace
UEENEEE020B	Provide basic instruction in the use of electrotechnology apparatus
UEENEEK042A	Participate in environmentally sustainable work practices

Elective Competency Standard Units

In accordance with Schedule 2 which forms an integral part of this qualification, achieve a Unit Strand Total of at least 6 as specified.

Note:

1. Prerequisite pathways shall be identified and met for all elective units selected.
2. In selecting elective units considerations to career planning advice should be given to units that form part of a prerequisite pathway for the progression to achieve particular competencies or qualification at a higher level.

END OF QUALIFICATION

Schedule of Electives – 2

Competency standard units have been put into strands to facilitate work outcomes for the qualification, as specified by industry stakeholders. This design feature has been developed to enhance flexibility for enterprise outcomes.

The following dot points provide examples on the use of the Schedule in selecting appropriate competency standard units to complete the Elective requirements of the qualification:

- 1 unit from strand 6, gives a unit strand total of 6
- 2 units from strand 3, gives a unit strand total of 6
- 1 unit from strand 5 PLUS 1 unit from strand 1, gives a unit strand total of 6

Notes:

1. All prerequisites must be met prior to completing each competency standard unit.
2. Where a competency standard unit is achieved as part of the core of a qualification it shall not be used again for selection as an elective unit.

Strand 8

Schedule 2 – Strand 8 Electives

UEENEEE045B Apply computation when using equipment, materials and concepts in an electrotechnology environment

Strand 7

Schedule 2 – Strand 7 Electives

Nil

Strand 6

Schedule 2 – Strand 6 Electives

UEENEE012B Support computer hardware and software

UEENEEE043B Produce routine tools/devices for carrying out electrotechnology work activities

UEENEEE044B Apply technologies and concepts to electrotechnology work activities

UEENEEE046B Identify affects of energy on machinery and materials in an electrotechnology environment

UEENEEE047B Identify building techniques, methods and materials used in electrotechnology work activities

UEENEEE049B Contribute to the operation of support plant and equipment used in electricity supply

UEENEEE050B Undertake computations in an electrotechnology environment

UEENEEF002B Lay and connect cables for multiple access to telecommunication services

UEENEEG052B Rewind single phase induction machines

UEENEEH003B Carry out routine repairs to business equipment

UEENEEH006B Assemble and set up fixed audio/video components and systems in buildings and premises

Schedule 2 – Strand 6 Electives

UEENEEK017B	Maintain and repair facilities associated with remote area essential services operation
UEENEEK018B	Maintain operation of remote area water facilities
UEENEEK020B	Maintain operation of remote area power plant

Strand 5

Schedule 2 – Strand 5 Electives

UEENEEH069B	Solve problems in electronic circuits
UEENEEK013B	Apply sustainable energy practice in daily activities

Strand 4

Schedule 2 – Strand 4 Electives

UEENEEED002B	Assemble, set up and test personal computers
UEENEEEE023B	Solve basic problems in electronic and digital equipment
UEENEEEE042B	Produce routine products for carrying out electrotechnology work activities
UEENEEG001B	Solve problems in electromagnetic circuits
UEENEEH050B	Assemble and set up basic wired and wireless security systems
UEENEEJ062B	Recover, pressure and leak test, evacuate and charge refrigerants appliance
UEENEEK019B	Maintain operation of remote area waste water facilities
UEENEEK023B	Carry out basic repairs to renewable energy apparatus by replacement of components
UEENEEK025B	Solve basic problems in photovoltaic energy apparatus

Strand 3

Schedule 2 – Strand 3 Electives

UEENEEEE022B	Carry out preparatory electrotechnology work activities
UEENEEEE030B	Provide solutions to and report on routine electrotechnology problems
UEENEEEE040B	Identify and select components/accessories/materials for electrotechnology work activities
UEENEEEE041B	Use of routine equipment/plant/technologies in an electrotechnology environment
UEENEEEE051B	Transport apparatus and materials
UEENEEF015B	Assemble and connect communication frames and cabinets
UEENEEH008B	Assemble and erect reception antennae and signal distribution equipment
UEENEEH009B	Set up and test gaming/games equipment
UEENEEH028B	Install microwave and antennae and waveguides
UEENEEH062B	Verify compliance and functionality of fire protection installations
One unit from an endorsed TP	One competency standard unit may be imported from any other National Quality Council (NQC) endorsed Training Package and be aligned to a relevant AQF
UEENEEJ005B	Position, assemble and start up split air conditioning systems
UEENEEJ051B	Service small appliances and power tools

Schedule 2 – Strand 3 Electives

UEENEEJ072B	Recover, pressure and leak test, evacuate and charge refrigerants – split air conditioning systems
UEENEEK011B	Assemble and connect remote area power supplies

Strand 2

Schedule 2 – Strand 2 Electives

UEENEEA001B	Assemble electronic apparatus
UEENEEA003B	Set up and check electronic component placement machines
UEENEEA004B	Rework electronic sub assemblies
UEENEEA006B	Apply lead-free soldering techniques
UEENEEB001B	Operate and maintain an amateur radio communication station
UEENEEED004B	Use engineering applications software
UEENEEED043B	Install and configure a computer operating system and software
UEENEEED046B	Set up and configure basic local area network
UEENEEEE002B	Dismantle, assemble and fabricate electrotechnology components
UEENEEEE003B	Solve problems in extra-low voltage single path circuits
UEENEEEE004B	Solve problems in multiple path d.c. circuits
UEENEEEE007B	Use drawings, diagrams, schedules and manuals
UEENEEEE008B	Lay wiring and terminate accessories for extra-low voltage circuits
UEENEEEE019B	Solve problems in multiple path a.c. circuits
UEENEEEE048B	Carry out routine work activities in an electrotechnology environment
UEENEEF006B	Solve problems in data and voice communications circuits
UEENEEF007B	Set up wireless capabilities of communications and data storage devices
UEENEEG011B	Carry out basic repairs to electrical apparatus
UEENEEG050B	Wind coils
UEENEEG051B	Place and connect coils
UEENEEH001B	Carry out basic repairs to computer equipment by replacement of modules/sub-assemblies
UEENEEH002B	Carry out basic repairs to electronic apparatus by replacement of components
UEENEEH004B	Set up and test audio/video equipment
UEENEEH061B	Position and terminate fire detection and warning system apparatus
UEENEEJ002B	Prepare refrigeration tubing and fittings
UEENEEJ003B	Determine the basic operating conditions of vapour compression systems
UEENEEJ004B	Determine the basic operating conditions of air conditioning systems
UEENEEK003B	Conduct periodic maintenance of remote area power supply (RAPS) battery banks
UEENEEK004B	Conduct periodic maintenance of remote area power supply (RAPS) generator sets
UEENEEK005B	Conduct periodic maintenance of remote area power supply (RAPS) photo voltaic arrays
UEENEEK006B	Conduct periodic maintenance of remote area power supply (RAPS) wind generators

Schedule 2 – Strand 2 Electives

UEENEEK007B	Conduct audits in the demand side use of remote area power supplies
UEENEEK008B	Plan periodic maintenance schedules of remote area power supplies
UEENEEK012B	Provide basic sustainable energy solutions for energy reduction in domestic premises
UEENEEK014B	Promote sustainable energy practice in the community
UEENEPP002B	Attach cords and plugs to electrical equipment for connection to a single phase 250 Volt supply
UEENEPP006B	Attach flexible cables and plugs to electrical equipment connected to a high voltage supply
UEENEPP009B	Locate and rectify faults in electrical low voltage appliances up to 250V following prescribed procedures
UEOPS234A	Perform Routine Oxyacetylene (Fuel Gas) Welding
UEOPS235A	Perform Routine Manual Arc Welding
UEOPS236A	Perform Manual Heating, Thermal Cutting and Gouging

Strand 1

Schedule 2 – Strand 1 Electives

UEENEEA002B	Select electronic components
UEENEEA005B	Conduct functional and quality tests on assembled electronic apparatus
UEENEED005B	Enter and verify operating instructions in microprocessor equipped devices
UEENEEE001B	Apply OHS practices in the workplace
UEENEEE005B	Fix and secure equipment
UEENEEE032B	Document occupational hazards and risks in computer systems
UEENEEE033B	Document occupational hazards and risks in electrical
UEENEEE034B	Document occupational hazards and risks in electronics
UEENEEE035B	Document occupational hazards and risks in instrumentation
UEENEEE036B	Document occupational hazards and risks in refrigeration and Air-conditioning
UEENEEE037B	Document occupational hazards and risks in electrotechnology
UEENEFF001B	Lay and connect cabling for direct access to telecommunication services
UEENEJ052B	Carry out repairs to appliance refrigeration systems
UEENEEK001B	Maintain safety and tidiness of remote area power supply (RAPS) systems
UEENEEK002B	Work safely with remote area power supply (RAPS) systems
UEENEEK024B	Assemble and set up photovoltaic apparatus in domestic dwellings
UEENEEM001B	Report on the integrity of explosion-protected equipment in hazardous areas
UEENEPP003B	Attach cords and plugs to electrical equipment for connection to 1000 Va.c. or 1500 Vd.c. supply
UEENEPP008B	Conduct inservice safety testing of electrical cord assemblies and cord connected equipment