

PRE-REQUISITE COMPANION VOLUME

UEE Electrotechnology
Release 11.0



About Powering Skills Organisation

Powering Skills Organisation (PSO) is one of ten Jobs and Skills Councils established by the Federal Government to provide industry with a stronger voice. PSO brings together employers, unions and governments in a tripartite arrangement to find solutions to skills and workforce challenges. We ensure Australia's vocational education and training (VET) sector delivers industry led outcomes for learners and employers. PSO works to find solutions to skills and workforce challenges of our diverse stakeholder network, utilising strong collaboration between industry and training providers.

Jobs and Skills Councils have four (4) broad roles:

- Industry Stewardship which involves gathering industry intelligence to reliably represent the views and needs of industry back to the VET system and its decision-makers.
- Workforce Planning which enables industry to identify its workforce development issues and design high-impact solutions, which are then captured in the Committee's national Workforce Plan for the industry.
- Training Product Development which focusses on improving the quality, speed to market and responsiveness of training products to employer and workforce needs.
- Implementation, promotion and monitoring which involves supporting training providers, promoting careers and monitoring how well the system is meeting the needs of industry and learners.

Powering Skills Organisation (PSO) appointed in the Energy, Gas and Renewables sectors. The JSCs initiative is an exciting step towards ensuring Australia's future workforce has the skills that they need for this country's industries to continue to grow rapidly.

One of the four key functions of PSO is training product development. This requires JSCs to develop training products in line with standards set by Skills Ministers to improve the quality, speed to market (where appropriate) and responsiveness of training products. PSO manages four training packages: UEE, UEG, UEP and UET.

UEE - Electrotechnology Training Package

The UEE - Electrotechnology Training Package is a vital component of the VET system. It is tailored to the electrotechnology sector, providing structured learning pathways for individuals aiming to enter or advance within this field. This training package covers a wide array of topics relevant to electrotechnology, including electrical installation, maintenance, renewable energy systems, and energy efficiency practices

UEG - Gas Industry Training Package

The UEG – Gas Industry Training Package serves as the VET package for the gas sector in Australia. This package provides a structured framework for individuals seeking to enter or advance within the gas labour force. It covers a diverse range of topics essential to gas operations, including gas supply, distribution, infrastructure maintenance, safety protocols, and emerging technologies like hydrogen.

UEP - Electricity Supply Industry - Generation Sector Training Package

The Electricity Supply Industry - Generation Sector Training Package is the VET package for those aspiring to work within electricity generation in Australia. This package serves as a roadmap for individuals seeking to enter or advance within the sector, covering a diverse spectrum of topics essential to power generation (including power plant operations, renewable energy integration and emerging technologies).

UET - Transmission, Distribution and Rail Sector

The UET- Transmission, Distribution, and Rail Sector Training Package is tailored to the needs of these critical sectors. It is used by individuals working in and aspiring to work in roles related to electricity transmission, distribution, and rail infrastructure. This training package covers a broad spectrum of topics essential to these sectors, including infrastructure maintenance, safety protocols, technological advancements, and regulatory compliance

PSO is committed to deliver responsive and flexible training products that have high educational standing and can be readily delivered by RTOs, including piloting emerging products and testing new approaches to meet RTO, industry and learners' needs.

ABOUT THE UEE PRE-REQUISITES COMPANION VOLUME

Candidates must be deemed competent in the required prerequisite Unit/s of Competency prior to the determination of competency in the Units of Competency they appear in. Some Units of Competency within the UEE Training Package have prerequisites that are streamed to facilitate different industry pathways and care must be taken to ensure the correct prerequisite requirements are implemented.

NOTE: If units do not contain pre-requisites, they are not included in this Companion Volume

The content in this companion volume was correct at the time of publishing; however, the best source of information about pre-requisite requirements is the actual units of competency. To ensure accuracy, the endorsed units of competency should always be checked.

Qualifications in the UEE Training Package contain the following in the Packaging Rules field:

- There are units of competency within this qualification that contain pre-requisites. Units of competency that have a pre-requisite requirement are identified by this symbol *. Refer directly to the units of competency to identify pre-requisite requirements to ensure all are complied with. A list of all pre-requisites is also provided in the UEE Pre-requisite Companion Volume.

Where imported units are selected, care must be taken to ensure all pre-requisite units specified are complied with. Where units in qualifications have pre-requisites, the asterisk (*) appears after the title as follows:

UEECD0028	UEECD0028 Plan an integrated cabling installation system*
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UEE UNITS AND THEIR PRE- REQUISITES

Unit	Pre-requisite Unit
UEEAS0001 Assemble electronic components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEAS0002 Conduct quality and functional tests on assembled electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEAS0003 Modify electronic sub-assemblies	UEEAS0001 Assemble electronic components UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEAS0004 Select electronic components for assembly	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEAS0005 Set up and check electronic component assembly machines	UEEAS0001 Assemble electronic components UEEAS0004 Select electronic components for assembly
UEEAS0006 Use lead-free soldering techniques	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEAS0007 Assemble, mount and connect control gear and switchgear	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic



	devices UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEAS0008 Fabricate and assemble bus bars	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEAS0009 Mount and wire control panel equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEECD0001 Analyse materials for suitability in electrical equipment	UEECD0002 Analyse static and dynamic parameters of electrical equipment
UEECD0006 Apply technologies and concepts to energy sector work activities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0008 Carry out preparatory energy sector work activities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0009 Carry out routine work activities in an energy sector environment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0015 Develop engineering solutions to photonic system problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0065 Solve problems in basic electronic circuits or UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0019 Fabricate, assemble and dismantle utilities industry components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0020 Fix and secure electrotechnology equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0021 Identify and select components, accessories and materials for energy sector work activities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0009 Carry out routine work activities in an energy sector environment
UEECD0022 Identify building techniques, methods and materials used in energy sector work activities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0025 Lay wiring cabling and terminate accessories for extra-low voltage (ELV) circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEECD0028 Plan an integrated cabling installation system	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications and UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits or UEEEL0023 Terminate cables, cords and accessories for low voltage circuits
UEECD0030 Prepare electrotechnology utilities drawings using manual drafting and CAD equipment and software	UEECS0033 Use engineering applications software on personal computers UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0031 Prepare engineering drawings using manual drafting and CAD for electrotechnology applications and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEECD0031 Prepare engineering drawings using manual drafting and CAD for electrotechnology applications	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECS0033 Use engineering applications software on personal computers UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEECD0032 Produce detailed electrotechnology utilities drawings using CAD equipment and software	UEECS0033 Use engineering applications software on personal computers UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0031 Prepare engineering drawings using manual drafting and CAD for electrotechnology applications UEECD0030 Prepare electrotechnology/utilities drawings using manual drafting and CAD equipment and software and

	UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEECD0033 Produce products for carrying out energy sector work activities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components
UEECD0034 Produce routine tools devices for carrying out energy sector work activities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0039 Provide solutions to basic engineering computational problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0040 Solve basic problems electronic and digital equipment and circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEECD0042 Solve problems in ELV single path circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0043 Solve problems in direct current circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0044 Solve problems in multiple path circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0046 Solve problems in single path circuits
UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEECD0046 Solve problems in single path circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0049 Use advanced computational processes to provide solutions to energy sector engineering problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0039 Provide solutions to basic engineering computational problems
UEECD0050 Use and maintain the integrity of a portable gas detection device	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0052 Use routine equipment plant technologies in an energy sector environment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECO0014 Prepare tender submissions for electrotechnology projects	UEECO0001 Estimate electrotechnology projects
UEECS0003 Assemble, set up and test computing devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECS0004 Commission industrial computer systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECS0014 Develop computer network services	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECS0016 Develop energy sector directory services	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECS0019 Develop, implement and test object-oriented code	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECS0023 Install and configure network systems for internetworking	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECS0025 Modify redesign industrial computer systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECS0029 Set up and configure basic local area network (LAN)	UEECS0003 Assemble, set up and test computing devices UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECS0031 Set up, create and implement content for a web server	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEDV0001 Assemble and connect telecommunication frames and cabinets	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEDV0002 Install aerial telecommunication cables	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEDV0005 Install and maintain cabling for multiple access to telecommunication services and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEDV0003 Install and connect cabling for direct access to telecommunications service	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications and UEEDV0013 Solve problems in voice and data communications circuits or UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEDV0004 Install and connect data and voice communication equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEDV0005 Install and maintain cabling for multiple access to telecommunication services UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling UEEDV0006 Install and modify optical fibre performance data communication cabling and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEDV0005 Install and maintain cabling for multiple access to telecommunication services	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

	UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEDV0006 Install and modify optical fibre performance data communication cabling	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEDV0005 Install and maintain cabling for multiple access to telecommunication services
UEEDV0007 Install underground communication cables	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEDV0005 Install and maintain cabling for multiple access to telecommunication services and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEDV0005 Install and maintain cabling for multiple access to telecommunication services and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEDV0009 Select and arrange data and voice equipment for local area networks	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEDV0005 Install and maintain cabling for multiple access to telecommunication services UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling UEEDV0006 Install and modify optical fibre performance data communication cabling and UEECD0043 Solve problems in direct current circuits or

	UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEDV0010 Select and arrange equipment for wireless communication networks	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEDV0011 Set up and configure basic data communication systems	UEECS0003 Assemble, set up and test computing devices UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEDV0013 Solve problems in voice and data communications circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEDV0014 Test, report and rectify faults in data and voice installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEDV0005 Install and maintain cabling for multiple access to telecommunication services UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling UEEDV0006 Install and modify optical fibre performance data communication cabling and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEEC0001 Analyse the performance of wireless-based electronic communication systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0002 Assemble and install reception antennae and signal distribution equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEEEC0003 Assemble and set up basic security systems	UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEEEC0004 Assemble and set up fixed video audio components and systems in buildings and premises	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits
UEEEEC0006 Carry out repairs of predictable faults in video and audio replay recording apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEEC0075 Troubleshoot single phase input d.c power supplies UEEEEC0069 Troubleshoot digital sub-systems UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEEC0028 Fault find and repair complex power supplies

UEEEEC0008 Commission large fire protection systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEC0041 Install fire detection and warning system apparatus UEEEC0076 Verify compliance and functionality of fire protection system installations UEEEC0026 Enter and verify programs for fire protection systems
UEEEEC0009 Commission satellite and microwave communication systems	UEEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus
UEEEEC0012 Design custom electronic equipment installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits UEEEC0077 Verify functionality and compliance of custom electronic installations UEEEC0004 Assemble and set up fixed video/audio components and systems in buildings and premises
UEEEEC0013 Design electronic printed circuit boards	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0015 Develop basic plans for integrating security systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEC0003 Assemble and set up basic security systems UEEEC0050 Program and commission commercial security systems UEEEC0048 Program and commission commercial access control security systems UEEEC0049 Program and commission commercial security closed-circuit television systems UEEEC0052 Program and test large security systems
UEEEEC0016 Develop engineering solutions to RF amplifier problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0017 Develop engineering solutions to analogue electronic problems	UEEEEC0067 Troubleshoot basic amplifier circuits
UEEEEC0018 Develop engineering solutions to audio electronic problems	UEEEEC0067 Troubleshoot basic amplifier circuits
UEEEEC0019 Develop software solutions for microcontroller-based systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0020 Develop solutions for air surveillance apparatus and systems	UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus UEEEC0068 Troubleshoot communication systems UEEEC0053 Provide engineering solutions to air traffic control system problems
UEEEEC0021 Diagnose and rectify faults in air navigation circuits and systems	UEEEC0061 Set up and adjust commercial radio frequency (RF) transmission and reception systems UEEEC0068 Troubleshoot communication systems UEEEC0053 Provide engineering solutions to air traffic control system problems

UEEEEC0022 Diagnose and rectify faults in camera circuits and equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEEC0029 Fault find and repair electronic apparatus
UEEEEC0023 Diagnose and rectify faults in digital transmission circuits and systems	UEEEEC0024 Diagnose and rectify faults in electronic display circuits
UEEEEC0024 Diagnose and rectify faults in electronic display circuits	UEEEEC0070 Troubleshoot faults in television receivers
UEEEEC0026 Enter and verify programs for fire protection systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEEC0041 Install fire detection and warning system apparatus UEEEEC0076 Verify compliance and functionality of fire protection system installations
UEEEEC0027 Enter instructions and test wired and wireless security systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEEC0003 Assemble and set up basic security systems
UEEEEC0028 Fault find and repair complex power supplies	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0043 Solve problems in direct current circuits UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components
UEEEEC0029 Fault find and repair electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0030 Fault find and repair electronic medical equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEEC0075 Troubleshoot single phase input d.c power supplies UEEEEC0069 Troubleshoot digital sub-systems UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEEC0019 Develop software solutions for microcontroller-based systems UEEEEC0028 Fault find and repair complex power supplies and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus UEEEEC0065 Solve problems in basic electronic circuits or UEEEEL0020 Solve problems in low voltage a.c. circuits UEEEEL0019 Solve problems in direct current (d.c.) machines UEEEEL0021 Solve problems in magnetic and electromagnetic devices
UEEEEC0031 Fault find and repair global positioning systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus

	UEEEC0067 Troubleshoot basic amplifier circuits UEEEC0063 Solve fundamental electronic communications system problems UEEEC0068 Troubleshoot communication systems and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus UEEEC0065 Solve problems in basic electronic circuits or UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0020 Solve problems in low voltage a.c. circuits
UEEEEC0032 Fault find and repair high-volume office equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEC0059 Repair routine business equipment faults
UEEEEC0033 Fault find and repair navigation systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus UEEEC0067 Troubleshoot basic amplifier circuits UEEEC0063 Solve fundamental electronic communications system problems UEEEC0068 Troubleshoot communication systems and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus UEEEC0065 Solve problems in basic electronic circuits or UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices
UEEEEC0034 Fault find and repair radar apparatus and systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus UEEEC0067 Troubleshoot basic amplifier circuits UEEEC0063 Solve fundamental electronic communications system problems UEEEC0068 Troubleshoot communication systems and UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus

	UEEEC0065 Solve problems in basic electronic circuits or UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEEC0035 Fault find and repair satellite-based surveillance and observation systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus UEEEC0067 Troubleshoot basic amplifier circuits UEEEC0063 Solve fundamental electronic communications system problems UEEEC0068 Troubleshoot communication systems and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus UEEEC0065 Solve problems in basic electronic circuits or UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices
UEEEEC0036 Fault find and repair sonar apparatus and systems	UEEEC0069 Troubleshoot digital sub-systems UEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEC0019 Develop software solutions for microcontroller-based systems UEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus UEEEC0068 Troubleshoot communication systems
UEEEEC0037 Fault find and repair telecommunication apparatus and systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEC0075 Troubleshoot single phase input d.c power supplies UEEEC0069 Troubleshoot digital sub-systems UEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEC0019 Develop software solutions for microcontroller-based systems UEEEC0028 Fault find and repair complex power supplies and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus UEEEC0065 Solve problems in basic electronic circuits or UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic

	devices UEEEL0020 Solve problems in low voltage a.c. circuits
UEEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEEC0067 Troubleshoot basic amplifier circuits UEEEEC0063 Solve fundamental electronic communications system problems and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEEC0039 Install and test microwave antennae and waveguides	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEEEC0040 Install commercial video audio system components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits
UEEEEC0041 Install fire detection and warning system apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEEEC0042 Install large security systems	UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEEC0003 Assemble and set up basic security systems
UEEEEC0044 Modify - redesign electronics and communications systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0046 Operate and maintain amateur radio communication stations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0048 Program and commission commercial access control security systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEEC0003 Assemble and set up basic security systems UEEEEC0027 Enter instructions and test wired and wireless security systems
UEEEEC0049 Program and commission commercial security closed-circuit television systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment

	UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEC0003 Assemble and set up basic security systems UEEEC0027 Enter instructions and test wired and wireless security systems
UEEEEC0050 Program and commission commercial security systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEC0003 Assemble and set up basic security systems UEEEC0027 Enter instructions and test wired and wireless security systems
UEEEEC0051 Program and commission commercial video audio systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits UEEEC0040 Install commercial video/audio system components
UEEEEC0052 Program and test large security systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEC0003 Assemble and set up basic security systems UEEEC0050 Program and commission commercial security systems UEEEC0048 Program and commission commercial access control security systems UEEEC0049 Program and commission commercial security closed-circuit television systems
UEEEEC0053 Provide engineering solutions to air traffic control system problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0054 Provide gate array solutions for complex electronics systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0055 Repair basic computer equipment faults by replacement of modules sub-assemblies	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits or UEECD0040 Solve basic problems electronic and digital equipment and circuits UEECD0043 Solve problems in direct current circuits or UEECD0040 Solve basic problems electronic and digital equipment and circuits UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits

UEEEEC0056 Repair predictable faults in audio components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEEC0075 Troubleshoot single phase input d.c power supplies UEEEEC0069 Troubleshoot digital sub-systems UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEEC0028 Fault find and repair complex power supplies
UEEEEC0057 Repair predictable faults in general electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEEC0075 Troubleshoot single phase input d.c power supplies UEEEEC0069 Troubleshoot digital sub-systems UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEEC0028 Fault find and repair complex power supplies
UEEEEC0058 Repair predictable faults in television receivers	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEEC0075 Troubleshoot single phase input d.c power supplies UEEEEC0069 Troubleshoot digital sub-systems UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus UEEEEC0028 Fault find and repair complex power supplies
UEEEEC0059 Repair routine business equipment faults	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components
UEEEEC0061 Set up and adjust commercial radio frequency (RF) transmission and reception systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEEC0063 Solve fundamental electronic communications system problems UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEEC0062 Set up and test residential video audio equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEEC0063 Solve fundamental electronic communications system problems	UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus
UEEEEC0064 Solve oscillator problems	UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus UEEEEC0067 Troubleshoot basic amplifier circuits
UEEEEC0065 Solve problems in basic electronic circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEEEEC0066 Troubleshoot amplifiers in an electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEEC0067 Troubleshoot basic amplifier circuits and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEEC0067 Troubleshoot basic amplifier circuits	UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components
UEEEEC0068 Troubleshoot communication systems	UEECD0043 Solve problems in direct current circuits UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus UEEEEC0063 Solve fundamental electronic communications system problems
UEEEEC0069 Troubleshoot digital sub-systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components
UEEEEC0070 Troubleshoot faults in television receivers	UEEEEC0058 Repair predictable faults in television receivers
UEEEEC0071 Troubleshoot fire protection systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEEC0041 Install fire detection and warning system apparatus UEEEEC0076 Verify compliance and functionality of fire protection system installations UEEEEC0026 Enter and verify programs for fire protection systems UEEEEC0008 Commission large fire protection systems
UEEEEC0073 Troubleshoot professional audio reproduction components	UEEEEC0056 Repair predictable faults in audio components
UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEEC0075 Troubleshoot single phase input d.c power supplies	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus or UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits or UEEEEC0065 Solve problems in basic electronic circuits or 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
UEEEEC0076 Verify compliance and functionality of fire protection system installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEC0041 Install fire detection and warning system apparatus
UEEEEC0077 Verify functionality and compliance of custom electronic installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits UEEEC0004 Assemble and set up fixed video/audio components and systems in buildings and premises
UEEEL0001 Apply compliance requirements to all aspects of electrical work	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEL0002 Apply currency of safe working practices and compliance verification of electrical installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEL0003 Arrange circuits, control and protection for electrical installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0004 Carry out basic repairs to electrical components and equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components
UEEEL0005 Develop and connect electrical control circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices

	UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0006 Develop detailed and complex drawings for electrical systems using CAD systems	UEECS0033 Use engineering applications software on personal computers UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0007 Develop detailed electrical drawings UEECD0031 Prepare engineering drawings using manual drafting and CAD for electrotechnology applications UEECD0030 Prepare electrotechnology/utilities drawings using manual drafting and CAD equipment and software UEECD0032 Produce detailed electrotechnology/utilities drawings using CAD equipment and software and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0007 Develop detailed electrical drawings	UEECD0031 Prepare engineering drawings using manual drafting and CAD for electrotechnology applications UEECD0030 Prepare electrotechnology/utilities drawings using manual drafting and CAD equipment and software UEECD0032 Produce detailed electrotechnology/utilities drawings using CAD equipment and software
UEEEL0008 Evaluate and modify low voltage heating equipment and controls	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment and controls	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits

	and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0010 Evaluate and modify low voltage socket outlets circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0011 Evaluate performance of low voltage electrical apparatus	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and select cables for low voltage electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0013 Install, set up and commission interval metering	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment

	UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and select cables for low voltage electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0047 Identify, shut down and restart systems with alternate supplies and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0015 Manage large electrical projects	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEL0017 Repair and maintain mechanical components of electrical machines	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment

	UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0004 Carry out basic repairs to electrical components and equipment
UEEEL0018 Select wiring systems and select cables for low voltage electrical installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0019 Solve problems in direct current (d.c.) machines	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEL0021 Solve problems in magnetic and electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0020 Solve problems in low voltage a.c. circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEL0021 Solve problems in magnetic and electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0021 Solve problems in magnetic and electromagnetic devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0022 Supply effective and efficient lighting products for domestic and small commercial applications	UEEEL0016 Provide advice on effective and energy efficient lighting products
UEEEL0023 Terminate cables, cords and accessories for low voltage circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components

	UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0024 Test and connect alternating current (a.c.) rotating machines	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0025 Test and connect transformers	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0026 Align and install traction lift equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0045 Diagnose and rectify faults in traction lift systems UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0046 Solve problems in single path circuits UEECD0044 Solve problems in multiple path circuits
UEEEL0027 Carry out low voltage electrical field testing and report findings	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0039 Verify compliance and functionality of low voltage general electrical installations UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0028 Conduct compliance and functional verification of electrical apparatus and existing circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0005 Develop and connect electrical control circuits UEEEL0047 Identify, shut down and restart systems with alternate supplies UEEEL0019 Solve problems in direct current (d.c.) machines

	UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multipath circuits UEECD0046 Solve problems in single path circuits
UEEEL0029 Conduct compliance inspection of LV electrical installations with demand exceeding 100 A per phase	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0039 Verify compliance and functionality of low voltage general electrical installations UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0030 Conduct compliance inspection of single phase LV electrical installations UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0030 Conduct compliance inspection of single phase LV electrical installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0039 Verify compliance and functionality of low voltage general electrical installations

	UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0031 Conduct compliance inspection of special LV electrical installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0039 Verify compliance and functionality of low voltage general electrical installations UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0069 Select and arrange equipment for special LV electrical installations UEEEL0073 Verify compliance and functionality of special LV electrical installations UEEEL0030 Conduct compliance inspection of single phase LV electrical installations UEEEL0029 Conduct compliance inspection of LV electrical installations with demand exceeding 100 A per phase UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and

	UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0032 Conduct electrical tests on HV electrical machines	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0033 Conduct electrical tests on LV electrical machines UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEL0074 Wind electrical coils UEEEL0056 Place and connect electrical coils UEEEL0068 Rewind three phase low voltage induction machines or UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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
UEEEL0033 Conduct electrical tests on LV electrical machines	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEL0003 Arrange circuits, control and protection for general electrical installations 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 UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits or UEEEL0056 Place and connect electrical coils UEEEL0068 Rewind three phase low voltage induction machines UEEEL0074 Wind electrical coils
UEEEL0034 Conduct mechanical tests on electrical machines and components	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0033 Conduct electrical tests on LV electrical machines UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEL0074 Wind electrical coils UEEEL0056 Place and connect electrical coils UEEEL0068 Rewind three phase low voltage induction machines or UEEEL0003 Arrange circuits, control and protection for general electrical installations 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 UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits
UEEEL0035 Design effective and efficient lighting for public, open and sports areas	UEEEL0063 Provide photometric data for illumination system design UEEEL0070 Select effective and efficient light sources and luminaries for given locations and designs
UEEEL0036 Design effective and efficient lighting for residential and commercial buildings	UEEEL0063 Provide photometric data for illumination system design UEEEL0070 Select effective and efficient light sources and luminaries for given locations and designs
UEEEL0037 Design electrical installations with a low voltage demand greater than 400 A per phase	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0057 Plan electrical installations with a low voltage demand up to 400 A per phase

	UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0038 Design switchboards rated for high fault levels (greater than 400 A)	UEEEL0059 Plan low voltage switchboard and control panel layouts UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEEEL0062 Provide engineering solutions to problems in complex polyphase power circuits UEECD0036 Provide engineering solutions for problems in complex multiple path circuit UEECD0039 Provide solutions to basic engineering computational problems and UEECD0041 Solve electrotechnical engineering problems or UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices or UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices or UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus

UEEEL0039 Design, install and verify compliance and functionality of general electrical installations	HLTAID009 Provide cardiopulmonary resuscitation UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, dismantle and assemble utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuit UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0047 Identify, shut down and restart systems with alternate supplies UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories UETDRRF004 Perform rescue from a live LV panel and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0040 Develop compliance policies and plans to conduct an electrical contracting business	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEL0041 Develop engineering solution for synchronous machine and control problems	UEEEL0062 Provide engineering solutions to problems in complex polyphase power circuits UEECD0036 Provide engineering solutions for problems in complex multiple path circuit UEECD0039 Provide solutions to basic engineering computational problems UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and UEECD0041 Solve electrotechnical engineering problems or UEECD0043 Solve problems in direct current circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices or UEEEC0074 Troubleshoot resonance circuits in an electronic apparatus

	and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits or UEEEEC0065 Solve problems in basic electronic circuits
UEEEL0042 Develop engineering solutions for d.c. machine and control problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0036 Provide engineering solutions for problems in complex multiple path circuit UEECD0039 Provide solutions to basic engineering computational problems and UEECD0041 Solve electrotechnical engineering problems or UEECD0043 Solve problems in direct current circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices or UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits or UEEEEC0065 Solve problems in basic electronic circuits
UEEEL0043 Develop engineering solutions for induction machine and control problems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEL0062 Provide engineering solutions to problems in complex polyphase power circuits UEECD0036 Provide engineering solutions for problems in complex multiple path circuit UEECD0039 Provide solutions to basic engineering computational problems and UEECD0041 Solve electrotechnical engineering problems or UEECD0043 Solve problems in direct current circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices or UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus UEEEEC0065 Solve problems in basic electronic circuits
UEEEL0044 Diagnose and rectify faults in complex lift systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general

	electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0045 Diagnose and rectify faults in traction lift systems UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems UEEIC0018 Diagnose and rectify faults in digital controls systems UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0046 Solve problems in single path circuits UEECD0044 Solve problems in multiple path circuits
UEEEL0045 Diagnose and rectify faults in traction lift systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0046 Find and repair faults in LV d.c. electrical apparatus and circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low

	voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0047 Identify, shut down and restart systems with alternate supplies	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0049 Install and maintain emergency safety systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and

	UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0050 Install and replace low voltage current transformer metering	Note: Those holding an 'Unrestricted Electrician's Licence' or equivalent issued in an Australian state or territory meet the prerequisite requirements of this unit. 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 UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general 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 cables for low voltage general electrical installations UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0021 Solve problems in 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 and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0051 Investigate and report on electrical incidents and causes	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical

	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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0052 Maintain and service traction lift systems and equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0045 Diagnose and rectify faults in traction lift systems UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in path circuits
UEEEL0053 Maintain operation of electrical marine equipment and systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations 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 UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0021 Solve problems in 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 and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0054 Maintain operation of electrical mining equipment and systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations 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 UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0021 Solve problems in 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 and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0055 Overhaul and repair major switchgear and control gear	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0056 Place and connect electrical coils	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0074 Wind electrical coils and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits

UEEEL0057 Plan electrical installations with a low voltage demand up to 400 A per phase	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0058 Plan large electrical projects	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEEL0059 Plan low voltage switchboard and control panel layouts	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0060 Prepare quotations for the supply of effective and efficient lighting products for lighting projects	UEEEL0063 Provide photometric data for illumination system design UEEEL0070 Select light sources and luminaries for given locations and designs

UEEEL0061 Provide advice on the application of energy efficient lighting for ambient and aesthetic effect	UEEEL0016 Provide advice on effective and energy efficient lighting products UEEEL0022 Supply effective and efficient lighting products for domestic and small commercial applications
UEEEL0062 Provide engineering solutions to problems in complex polyphase power circuits	UEECD0036 Provide engineering solutions for problems in complex multiple path circuits UEEEL0020 Solve problems in low voltage a.c. circuits
UEEEL0064 Rewind HV three phase induction machines rated for voltages above 3.3 kV	UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0074 Wind electrical coils UEEEL0056 Place and connect electrical coils UEEEL0068 Rewind three phase low voltage induction machines UEEEL0065 Rewind HV three phase induction machines rated for voltages to 3.3 kV and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0065 Rewind HV three phase induction machines rated for voltages to 3.3 kV	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0074 Wind electrical coils UEEEL0056 Place and connect electrical coils UEEEL0068 Rewind three phase low voltage induction machines and UEECD0043 Solve problems in direct current circuits or UEECD0046 Solve problems in single path circuits UEECD0044 Solve problems in multiple path circuits
UEEEL0066 Rewind LV direct current machines	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0074 Wind electrical coils UEEEL0056 Place and connect electrical coils UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0046 Solve problems in single path circuits UEECD0044 Solve problems in multiple path circuits
UEEEL0067 Rewind single phase machines	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0074 Wind electrical coils UEEEL0056 Place and connect electrical coils UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices

	UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0068 Rewind three phase low voltage induction machines	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0074 Wind electrical coils UEEEL0056 Place and connect electrical coils UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0069 Select and arrange equipment for special LV electrical installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0070 Select effective and efficient light sources and luminaries for given locations and designs	UEEEL0063 Provide photometric data for illumination system design
UEEEL0071 Select low voltage power factor correction equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry

	components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0039 Design, install and verify compliance and functionality of general electrical installations UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0072 Set up and place LV electrical apparatus and associated circuits into service	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0039 Design, install and verify compliance and functionality of general electrical installations UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0025 Test and connect transformers UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0010 Evaluate and modify low voltage socket outlets circuits UEEEL0008 Evaluate and modify low voltage heating equipment and controls UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment, and controls UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories

	and UEECD0043 Solve problems in direct current circuits or UEECD0046 Solve problems in single path circuits UEECD0044 Solve problems in multiple path circuits
UEEEL0073 Verify compliance and functionality of special LV electrical installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEEEL0003 Arrange circuits, control and protection for general electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0039 Design, install and verify compliance and functionality of general electrical installations UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0018 Select wiring systems and cables for low voltage general electrical installations UEEEL0005 Develop and connect electrical control circuits UEEEL0069 Select and arrange equipment for special LV electrical installations UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEEL0074 Wind electrical coils	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEEL0075 Inspect, test and maintain emergency alarm systems and equipment	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 UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment, and controls UEEEL0010 Evaluate and modify low voltage socket outlets circuits

	UEEEL0021 Solve problems in electromagnetic devices UEEEL0025 Test and connect transformers
UEEEL0076 Install, test and maintain emergency lighting systems	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 UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment, and controls UEEEL0010 Evaluate and modify low voltage socket outlets circuits UEEEL0021 Solve problems in electromagnetic devices UEEEL0025 Test and connect transformers AND UEECD0043 Solve problems in direct current circuits OR UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEHA0001 Conduct detailed inspection of electrical installations for hazardous areas	UEEHA0004 Enter a classified hazardous area to undertake work related to electrical equipment UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEENEEG105A Verify compliance and functionality of low voltage general electrical installations or UEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations and UEEHA0007 Plan electrical installations for hazardous areas or UEEHA0005 Install explosion-protected equipment and associated apparatus and wiring systems or UEEHA0006 Maintain equipment associated with hazardous areas
UEEHA0002 Conduct visual and close inspection of electrical installations for hazardous areas	UEEHA0004 Enter a classified hazardous area to undertake work related to electrical equipment and UEENEEG105A Verify compliance and functionality of low voltage general electrical installations or UEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area	UEEHA0004 Enter a classified hazardous area to undertake work related to electrical equipment and UEENEEG105A Verify compliance and functionality of low voltage general electrical installations or UEENEEG199A Conduct compliance and functional verification of

	electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0005 Install explosion-protected equipment and associated apparatus and wiring systems	UEEHA0004 Enter a classified hazardous area to undertake work related to electrical equipment UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEENEEG105A Verify compliance and functionality of low voltage general electrical installations or UEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0006 Maintain equipment associated with hazardous areas	UEEHA0004 Enter a classified hazardous area to undertake work related to electrical equipment UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEENEEG105A Verify compliance and functionality of low voltage general electrical installations or UEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0007 Plan electrical installations for hazardous areas	UEEHA0004 Enter a classified hazardous area to undertake work related to electrical equipment UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area UEEHA0005 Install explosion-protected equipment and associated apparatus and wiring systems and UEENEEG105A Verify compliance and functionality of low voltage general electrical installations or UEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0009 Develop and manage periodic electrical inspection and maintenance programs for hazardous areas	UEEHA0004 Enter a classified hazardous area to undertake work related to electrical equipment UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEEEL0028 Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0010 Supervise repair and overhaul of explosion-protected equipment type Group III ('t')	UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or

	UEEEL0028 Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0011 Supervise repair and overhaul of explosion-protected equipment type flameproof (Ex d)	UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEEEL0028 Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0012 Supervise repair and overhaul of explosion-protected equipment type increased safety (Ex e)	UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEEEL0028 Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0013 Supervise repair and overhaul of explosion-protected equipment type intrinsically safe (Ex i)	UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEEEL0028 Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0014 Supervise repair and overhaul of explosion-protected equipment type pressurised (Ex p)	UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEEEL0028 Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEHA0015 Supervise repair and overhaul of explosion-protected rotating machines	UEEHA0003 Determine the explosion-protection requirements to meet a specified classified hazardous area and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEEEL0028 Conduct compliance and functional verification of electrical apparatus and existing circuits or UEEIC0048 Verify compliance and functionality of instrumentation and control installations
UEEIC0002 Assemble, enter and verify operating instructions in microprocessor equipped devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEEIC0003 Assist in commissioning process and instrumentation control systems	UEEIC0048 Verify compliance and functionality of instrumentation and control installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEIC0004 Calibrate, adjust and test measuring instruments	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals
UEEIC0005 Configure and maintain industrial control system networks	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEIC0008 Design electronic control systems	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s) Common Unit Group UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0020 Solve problems in low voltage a.c. circuits UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems UEEIC0018 Diagnose and rectify faults in digital controls systems and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits Electrical Pathway Group UEEEL0003 Arrange circuits, control and protection for electrical installations 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 UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits 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 Instrumentation and Control Pathway Group UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops UEEIC0048 Verify compliance and functionality of instrumentation and control installations UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks
UEEIC0009 Develop an electrical integrated system interface for access through a touch screen	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must be have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s): Electrical Common Unit Group ICTICT203 Operate application software packages UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0011 Develop electrical integrated systems Electrotechnology Pathway Group UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits Electrical Pathway Group UEEEL0023 Terminate cables, cords and accessories for low voltage circuits
UEEIC0011 Develop electrical integrated systems	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must be have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s) Common Unit Group ICTICT203 Operate application software packages UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications Electrotechnology Pathway Group UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits Electrical Pathway Group UEEEL0023 Terminate cables, cords and accessories for low voltage circuits
UEEIC0012 Develop structured programs to control external devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEIC0013 Develop, enter and verify discrete control programs for programmable controllers	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEEIC0014 Develop, enter and verify programs in supervisory control and data acquisition systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEIC0013 Develop, enter and verify discrete control programs for programmable controllers UEEIC0015 Develop, enter and verify word and analogue control programs for programmable logic controllers
UEEIC0015 Develop, enter and verify word and analogue control programs for programmable logic controllers	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEIC0013 Develop, enter and verify discrete control programs for programmable controllers
UEEIC0016 Diagnose and rectify faults in a.c. motor drive systems	UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers
UEEIC0017 Diagnose and rectify faults in d.c. motor drive systems	UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers
UEEIC0018 Diagnose and rectify faults in digital controls systems	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must be have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s) Common Unit Group UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits Electrical Pathway Group UEECD0020 Fix and secure electrotechnology equipment UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers Instrumentation and Control Pathway Group UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops

	UEEIC0048 Verify compliance and functionality of instrumentation and control installations UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks
UEEIC0019 Diagnose and rectify faults in servo drive systems	UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems UEEIC0042 Solve problems in single phase electronic power control circuits UEEIC0040 Solve problems in polyphase electronic power control circuits
UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must be have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s) Common Unit Group UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits Electrical Pathway Group UEECD0020 Fix and secure electrotechnology equipment UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers Instrumentation and Control Pathway Group UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops UEEIC0048 Verify compliance and functionality of instrumentation and control installations UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks

UEEIC0021 Find and rectify faults in process final control elements	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0023 Install instrumentation and control cabling and tubing UEEIC0022 Install instrumentation and control apparatus and associated equipment
UEEIC0022 Install instrumentation and control apparatus and associated equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals
UEEIC0023 Install instrumentation and control cabling and tubing	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals
UEEIC0024 Plan the electrical installation of integrated systems	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must be have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s) Common Unit Group UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications Electrotechnology Pathway Group UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits Electrical Pathway Group UEEEL0023 Terminate cables, cords and accessories for low voltage circuits
UEEIC0025 Provide solutions to extra-low voltage (ELV) electro-pneumatic control systems and drives	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEIC0026 Provide solutions to fluid circuit operations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEIC0027 Provide solutions to pneumatic-hydraulic system operations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0026 Provide solutions to fluid circuit operations
UEEIC0028 Provide solutions to problems in industrial control systems	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must be have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s) Common Unit Group UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits

	UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems UEEIC0018 Diagnose and rectify faults in digital controls systems UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits Electrical Pathway Group UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers Instrumentation and Control Pathway Group UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops UEEIC0048 Verify compliance and functionality of instrumentation and control installations UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks
UEEIC0029 Set up and adjust PID control loops	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0043 Solve problems in direct current circuits UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems
UEEIC0030 Set up and adjust advanced PID process control loops	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards

	and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0043 Solve problems in direct current circuits UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops
UEEIC0032 Set up electronically controlled robotically operated complex systems	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must be have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s) Common Unit Group UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices UEEEL0020 Solve problems in low voltage a.c. circuits UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems UEEIC0001 Analyse complex electronic circuits controlling fluids UEEIC0018 Diagnose and rectify faults in digital controls systems and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits Electrical Pathway Group UEEEL0003 Arrange circuits, control and protection for electrical installations 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 UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits

	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 Instrumentation and Control Pathway Group UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops UEEIC0048 Verify compliance and functionality of instrumentation and control installations UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks
UEEIC0033 Set up gas analysis measuring and control instruments	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEIC0034 Set up industrial field control devices	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s) Common Unit Group UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems UEEIC0018 Diagnose and rectify faults in digital controls systems UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits Electrical Pathway Group UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0014 Isolate, test and troubleshoot low voltage electrical 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers Instrumentation and Control Pathway Group UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops UEEIC0048 Verify compliance and functionality of instrumentation and control installations UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks
UEEIC0035 Set up scientific analysis measuring and control instruments	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEIC0036 Set up water analysis measuring and control instruments	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEIC0037 Set up weighting measuring and control instruments	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEIC0038 Solve problems in density/level measurement components and systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals

	UEEIC0041 Solve problems in pressure measurement components and systems
UEEIC0039 Solve problems in flow measurement components and systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems
UEEIC0040 Solve problems in polyphase electronic power control circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems UEEIC0042 Solve problems in single phase electronic power control circuits and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEIC0041 Solve problems in pressure measurement components and systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals
UEEIC0042 Solve problems in single phase electronic power control circuits	Where prerequisite pathways have been identified, all competencies in the Common Unit Group must have been completed plus all the competencies in one (1) of the identified Pathway Unit Group(s) Common Unit Group UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits Electrotechnology Pathway Group UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components UEEEEC0067 Troubleshoot basic amplifier circuits UEEEEC0065 Solve problems in basic electronic circuits Electronics and Communications Pathway Group UEEEEC0060 Repairs basic electronic apparatus faults by replacement of components

	UEEEEC0074 Troubleshoot resonance circuits in an electronic apparatus UEEEEC0067 Troubleshoot basic amplifier circuits Electrical Pathway Group UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0003 Arrange circuits, control and protection for electrical installations UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0023 Terminate cables, cords and accessories for low voltage circuits UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in magnetic and electromagnetic devices 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 UEEEL0024 Test and connect alternating current (a.c.) rotating machines UEEEL0025 Test and connect transformers Instrumentation and Control Pathway Group UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0045 Solve problems in multiple path extra-low voltage (ELV) a.c. circuits UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops UEEIC0048 Verify compliance and functionality of instrumentation and control installations UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks
UEEIC0043 Solve problems in temperature measurement components and systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals
UEEIC0044 Troubleshoot measuring and analysis systems	UEEIC0048 Verify compliance and functionality of instrumentation and control installations and UEEIC0037 Set up weighting measuring and control instruments or UEEIC0033 Set up gas analysis measuring and control instruments or UEEIC0036 Set up water analysis measuring and control instruments or UEEIC0035 Set up scientific analysis measuring and control instruments
UEEIC0045 Troubleshoot medical equipment control systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEEIC0046 Troubleshoot process control systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEEIC0048 Verify compliance and functionality of instrumentation and control installations	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEIC0047 Use instrumentation drawings, specifications, standards and equipment manuals UEEIC0041 Solve problems in pressure measurement components and systems UEEIC0038 Solve problems in density/level measurement components and systems UEEIC0039 Solve problems in flow measurement components and systems UEEIC0043 Solve problems in temperature measurement components and systems UEEIC0029 Set up and adjust PID control loops UEEIC0030 Set up and adjust advanced PID process control loops UEEIC0031 Set up and configure human-machine interface (HMI) and industrial networks and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEEIC0049 Manage instrumentation and control projects	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEEIC0050 Plan instrumentation and control projects	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0001 Analyse the operation of HVAC air and hydronic systems	UEERA0002 Analyse the psychrometric performance of HVAC/R systems UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment

	UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0002 Analyse the psychrometric performance of HVAC/R systems	UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0042 Solve problems in ELV single path circuits UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0004 Analyse vibration and noise in refrigeration and air conditioning systems	UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0001 Analyse the operation of HVAC air and hydronic systems

	UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0008 Audit HVAC/R control systems for compliance with regulations and standards	UEERA0021 Design control systems for refrigeration or heating, ventilation and air conditioning systems UEERA0060 Produce HVAC/R control system diagrams UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and

	accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures
UEERA0009 Audit energy use for commercial HVAC/R systems	UEERA0039 Evaluate and report on building services energy management systems UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0010 Commission complex heating, ventilation and air conditioning (HVAC) systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0032 Diagnose and rectify faults in complex air conditioning/refrigeration systems

	UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0011 Commission complex refrigeration systems and equipment	UEERA0032 Diagnose and rectify faults in complex air conditioning/refrigeration systems UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0012 Commission complex refrigeration/air conditioning control systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEERA0081 Select refrigerant piping, accessories and associated

	controls UEERA0032 Diagnose and rectify faults in complex air conditioning/refrigeration systems UEERA0033 Diagnose faults in complex HVAC/refrigeration control systems UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0013 Commission refrigeration/air conditioning hydronic systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0032 Diagnose and rectify faults in complex air conditioning/refrigeration systems UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0014 Design ammonia refrigerated systems	UEERA0005 Apply safety awareness and legal requirements for ammonia refrigerant UEERA0016 Design commercial refrigeration systems and select components UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems

	and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0042 Solve problems in ELV single path circuits UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0015 Design carbon dioxide refrigerated systems	UEERA0016 Design commercial refrigeration systems and select components UEERA0006 Apply safety awareness and legal requirements for carbon dioxide refrigerant UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0042 Solve problems in ELV single path circuits UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks

	associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0016 Design commercial refrigeration systems and select components	UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply

	UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0017 Design complex air conditioning systems and select equipment	UEERA0022 Design heating, ventilation and air conditioning (HVAC) systems and select components UEERA0004 Analyse vibration and noise in refrigeration and air conditioning systems UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0018 Design complex commercial refrigeration systems and select equipment	UEERA0016 Design commercial refrigeration systems and select components UEERA0004 Analyse vibration and noise in refrigeration and air conditioning systems UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems

	or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0019 Design complex control systems for refrigeration or heating, ventilation, air conditioning systems	UEERA0021 Design control systems for refrigeration or heating, ventilation and air conditioning systems UEERA0060 Produce HVAC/R control system diagrams UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems

	UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0020 Design complex industrial refrigeration systems and select equipment	UEERA0025 Design industrial refrigeration systems and select components UEERA0004 Analyse vibration and noise in refrigeration and air conditioning systems UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0016 Design commercial refrigeration systems and select components UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0021 Design control systems for refrigeration or heating, ventilation and air conditioning systems	UEERA0060 Produce HVAC/R control system diagrams UEERA0001 Analyse the operation of HVAC air and hydronic systems

	UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0022 Design heating, ventilation and air conditioning (HVAC) systems and select components	UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems

	UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0023 Design hydrocarbon refrigerated systems	UEERA0016 Design commercial refrigeration systems and select components UEERA0007 Apply safety awareness and legal requirements for flammable refrigerants UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0042 Solve problems in ELV single path circuits UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for

	connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0024 Design hydronic systems and select equipment	UEERA0004 Analyse vibration and noise in refrigeration and air conditioning systems UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems Or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0025 Design industrial refrigeration systems and select components	UEERA0016 Design commercial refrigeration systems and select components UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

	UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0026 Design mechanical ventilation/exhaust systems and select equipment	UEERA0022 Design heating, ventilation and air conditioning (HVAC) systems and select components UEERA0004 Analyse vibration and noise in refrigeration and air conditioning systems UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits

	UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0027 Design secondary refrigerant systems	UEERA0016 Design commercial refrigeration systems and select components UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0042 Solve problems in ELV single path circuits UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0028 Determine noise and vibration encountered in HVAC/R applications	UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and

	air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0029 Develop heat exchanger design specifications	UEERA0004 Analyse vibration and noise in refrigeration and air conditioning systems UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air

	conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0030 Develop specifications and prepare drawings for HVAC/R projects	UEERA0061 Produce HVAC/R system design drawings UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0032 Diagnose and rectify faults in complex air conditioning/refrigeration systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air

	conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0033 Diagnose faults in complex HVAC/refrigeration control systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0032 Diagnose and rectify faults in complex air conditioning/refrigeration systems UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications	UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

	UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0035 Establish the basic operating conditions of air conditioning systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0036 Establish the basic operating conditions of vapour compression systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0037 Establish the basic operating conditions of vapour compression systems - appliances	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems	UEERA0002 Analyse the psychrometric performance of HVAC/R systems UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical

	equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0039 Evaluate and report on building services energy management systems	UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0040 Evaluate and report on the indoor air quality of buildings	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures

	UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0042 Evaluate thermodynamic and fluid parameters of refrigeration systems	UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0043 Find and rectify faults in appliance control systems and devices	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0044 Find and rectify faults in single phase motors and associated controls	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0045 Find and rectify faults in three phase motors and associated controls	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0046 Install and commission ammonia refrigeration systems, components and associated equipment	UEERA0005 Apply safety awareness and legal requirements for ammonia refrigerant UEERA0053 Install, commission, service and maintain medium temperature systems
UEERA0047 Install and commission carbon dioxide refrigeration systems, components and associated equipment	UEERA0053 Install, commission, service and maintain medium temperature systems UEERA0006 Apply safety awareness and legal requirements for carbon dioxide refrigerant

UEERA0048 Install and commission flammable refrigerant air conditioning and refrigeration systems	UEERA0007 Apply safety awareness and legal requirements for flammable refrigerants UEERA0053 Install, commission, service and maintain medium temperature systems
UEERA0049 Install and start up single head split air conditioning and water heating heat pump systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0064 Recover, pressure test, evacuate, charge and leak test refrigerants - split systems
UEERA0050 Install refrigerant pipe work, flow controls and accessories	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0051 Install, commission, service and maintain air conditioning systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0052 Install, commission, service and maintain low temperature systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0053 Install, commission, service and maintain medium temperature systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0056 Monitor and adjust refrigeration energy management systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0057 Operate ammonia refrigeration plant	UEERA0005 Apply safety awareness and legal requirements for ammonia refrigerant
UEERA0059 Prepare and connect refrigerant tubing and fittings	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0060 Produce HVAC/R control system diagrams	UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and

	practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0061 Produce HVAC/R system design drawings	UEERA0001 Analyse the operation of HVAC air and hydronic systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply

	UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0062 Recover and charge refrigerants	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0063 Recover, pressure test, evacuate, charge and leak test refrigerants - appliances	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0064 Recover, pressure test, evacuate, charge and leak test refrigerants - split systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0065 Repair and service ammonia refrigeration systems	UEERA0005 Apply safety awareness and legal requirements for ammonia refrigerant UEERA0053 Install, commission, service and maintain medium temperature systems
UEERA0066 Repair and service carbon dioxide refrigeration systems	UEERA0006 Apply safety awareness and legal requirements for carbon dioxide refrigerant UEERA0053 Install, commission, service and maintain medium temperature systems
UEERA0067 Repair and service secondary refrigeration systems	UEERA0053 Install, commission, service and maintain medium temperature systems
UEERA0068 Repair and service self-contained carbon dioxide refrigeration and heat pump systems	UEERA0053 Install, commission, service and maintain medium temperature systems UEERA0006 Apply safety awareness and legal requirements for carbon dioxide refrigerant Or UEERA0089 Service refrigeration appliances UEERA0006 Apply safety awareness and legal requirements for carbon dioxide refrigerant
UEERA0069 Resolve problems in beverage dispensers	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0070 Resolve problems in central plant air conditioning systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0071 Resolve problems in dairy refrigeration systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0072 Resolve problems in hydronic systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0073 Resolve problems in ice making systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0074 Resolve problems in industrial refrigeration systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0075 Resolve problems in post-mix refrigeration systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0076 Resolve problems in refrigerated beverage vending cabinets	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0077 Resolve problems in transport refrigeration systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0078 Resolve problems in ultra-low temperature refrigeration systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0079 Safely handle refrigerants and lubricants	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0080 Select basic commercial refrigeration system equipment, components and accessories	UEERA0081 Select refrigerant piping, accessories and associated controls UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems

	and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0042 Solve problems in ELV single path circuits UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0081 Select refrigerant piping, accessories and associated controls	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0082 Select residential air conditioning system equipment, components and accessories	UEERA0034 Establish heat loads for commercial refrigeration and/or air conditioning applications UEERA0038 Establish the thermodynamic parameters of refrigeration and air conditioning systems UEERA0002 Analyse the psychrometric performance of HVAC/R systems and UEERA0003 Analyse the thermodynamic performance of HVAC/R systems UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0036 Establish the basic operating conditions of vapour compression systems UEECD0007 Apply work health and safety regulations, codes and practices in the workplace or UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0042 Solve problems in ELV single path circuits UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

	UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0083 Service and repair microwave ovens	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0084 Service and repair self-contained flammable refrigerants air conditioning and refrigeration systems	UEERA0053 Install, commission, service and maintain medium temperature systems UEERA0007 Apply safety awareness and legal requirements for flammable refrigerants Or UEERA0089 Service refrigeration appliances UEERA0007 Apply safety awareness and legal requirements for flammable refrigerants
UEERA0085 Service clothes washing machines and dryers	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0086 Service dishwasher machines	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0087 Service electrical heating appliances	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0088 Service gas heating appliances	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0089 Service refrigeration appliances	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0090 Service room air conditioners	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0091 Service small electrical appliances and power tools	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0093 Verify functionality and compliance of appliances	UEECO0004 Participate in appliance servicing work and competency development activities UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0042 Solve problems in ELV single path circuits UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0059 Prepare and connect refrigerant tubing and fittings

	UEERA0091 Service small electrical appliances and power tools UEERA0044 Find and rectify faults in single phase motors and associated controls UEERA0043 Find and rectify faults in appliance control systems and devices UEERA0089 Service refrigeration appliances UEERA0085 Service clothes washing machines and dryers UEERA0063 Recover, pressure test, evacuate, charge and leak test refrigerants - appliances UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERA0037 Establish the basic operating conditions of vapour compression systems - appliances UEERE0001 Apply environmentally and sustainable procedures in the energy sector UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0094 Verify functionality and compliance of refrigeration and air conditioning installations	UEECO0010 Participate in refrigeration and air conditioning work and competency development activities UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0042 Solve problems in ELV single path circuits UEECD0020 Fix and secure electrotechnology equipment UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEECD0016 Document and apply measures to control WHS risks associated with electrotechnology work UEERA0044 Find and rectify faults in single phase motors and associated controls UEERA0045 Find and rectify faults in three phase motors and associated controls UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0081 Select refrigerant piping, accessories and associated controls UEERA0031 Diagnose and rectify faults in air conditioning and refrigeration control systems UEERA0092 Solve problems in low voltage refrigeration and air conditioning circuits UEERA0079 Safely handle refrigerants and lubricants UEERA0062 Recover and charge refrigerants UEERA0053 Install, commission, service and maintain medium temperature systems UEERA0052 Install, commission, service and maintain low temperature systems UEERA0051 Install, commission, service and maintain air conditioning systems UEERE0001 Apply environmentally and sustainable procedures in the energy sector UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures

	UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.
UEERA0095 Recover refrigerant from stationary self-contained end of life decommissioned equipment	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERA0096 Inspect, test and repair fire and smoke control features of mechanical services systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEERA0051 Install, commission, service and maintain air conditioning systems
UEERA0097 Install, commission, service and maintain variable refrigerant flow air conditioning systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEERA0051 Install, commission, service and maintain air conditioning systems
UEERA0099 - Install, commission, service and maintain air conditioning systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEERA0059 Prepare and connect refrigerant tubing and fittings UEERA0035 Establish the basic operating conditions of air conditioning systems UEERA0036 Establish the basic operating conditions of vapour compression systems UEERA0050 Install refrigerant pipe work, flow controls and accessories UEERA0062 Recover and charge refrigerants UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures
UEERE0006 Conduct periodic maintenance of remote area power supply battery banks	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEERE0019 Maintain safety and tidiness of remote area power supply systems UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEERE0023 Work safely with remote area power supply systems or UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEERE0007 Conduct periodic maintenance of remote area power supply generator sets	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEERE0019 Maintain safety and tidiness of remote area power supply systems UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEERE0023 Work safely with remote area power supply systems or UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEERE0008 Conduct periodic maintenance of remote area power supply photovoltaic arrays	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry

	components UEERE0019 Maintain safety and tidiness of remote area power supply systems UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEERE0023 Work safely with remote area power supply systems or UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEERE0009 Conduct periodic maintenance of remote area power supply wind generators	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEERE0019 Maintain safety and tidiness of remote area power supply systems UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEERE0023 Work safely with remote area power supply systems or UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEERE0018 Maintain and repair remote area power generation facilities	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEERE0019 Maintain safety and tidiness of remote area power supply systems UEERE0023 Work safely with remote area power supply systems UEERE0007 Conduct periodic maintenance of remote area power supply generator sets and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEERE0041 Maintain operation of remote area power generation plant	UEERE0018 Maintain and repair remote area power generation facilities
UEERE0043 Plan periodic maintenance schedules of remote area power supplies (RAPS)	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 UEERE0023 Work safely with remote area power supply systems UEERE0006 Conduct periodic maintenance of remote area power supply battery banks UEERE0007 Conduct periodic maintenance of remote area power supply generator sets
UEERE0045 Solve basic problems in micro-hydro systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEERE0046 Solve problems in stand-alone renewable energy (RE) systems	UEERE0025 Carry out basic repairs to renewable energy apparatus

UEERE0047 Solve problems in wind energy conversion systems (WECS) rated up to 10 kW	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEEEL0019 Solve problems in direct current (d.c.) machines UEEEL0021 Solve problems in electromagnetic devices and UEECD0043 Solve problems in direct current circuits or UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits
UEERE0050 Identify and isolate multiple supply systems	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations
UEERE0052 Assess energy loads and uses for energy efficiency in commercial facilities	UEERE0068 Develop strategies to address sustainability issues for electrical installations
UEERE0053 Assess energy loads and uses for energy efficiency in industrial properties and enterprises	UEERE0068 Develop strategies to address sustainability issues for electrical installations
UEERE0056 Coordinate maintenance of renewable energy (RE) apparatus and systems	UEERE0082 Maintain renewable energy (RE) apparatus
UEERE0057 Coordinate the design of micro-grid renewable energy systems	UEERE0054 Conduct site survey for grid-connected renewable energy systems UEERE0055 Conduct site survey for off-grid PV/genset systems UEERE0060 Design grid-connected energy storage systems UEERE0061 Design grid-connected photovoltaic power supply systems UEERE0063 Design off-grid PV Systems
UEERE0058 Coordinate the installation, fault finding and repair of micro grid systems	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations
UEERE0059 Design energy management controls for electrical installations in buildings	UEEIC0013 Develop, enter and verify discrete control programs for programmable controllers *
UEERE0060 Design grid-connected battery storage systems	UEERE0054 Conduct site survey for grid-connected photovoltaic and battery storage systems UEERE0061 Design grid-connected photovoltaic power supply systems and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEERE0051 Apply electrical principles to renewable energy design
UEERE0061 Design grid-connected photovoltaic power supply systems	UEERE0054 Conduct site survey for grid-connected photovoltaic and battery storage systems and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEERE0051 Apply electrical principles to renewable energy design
UEERE0062 Design micro-hydro systems	UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEERE0051 Apply electrical principles to renewable energy design
UEERE0063 Design off-grid photovoltaic/generating set systems	UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEERE0051 Apply electrical principles to renewable energy design
UEERE0064 Design renewable energy heating systems	UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems and

	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEERE0051 Apply electrical principles to renewable energy design
UEERE0065 Design wind energy systems	UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEERE0051 Apply electrical principles to renewable energy design
UEERE0067 Develop engineering solutions to renewable energy (RE) problems	UEECD0062 Write specifications for renewable energy engineering projects UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems UEERE0063 Design off-grid photovoltaic/generating set systems and UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEERE0051 Apply electrical principles to renewable energy design
UEERE0068 Develop strategies to address sustainability issues for electrical installations	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations or UEERE0051 Apply electrical principles to renewable energy design
UEERE0069 Diagnose and rectify faults in renewable energy (RE) control systems	UEERE0054 Conduct site survey for grid-connected renewable energy systems UEEEL0039 Design, install and verify compliance and functionality of general electrical installations
UEERE0070 Fault find and repair grid-connected photovoltaic power supply systems	UEERE0054 Conduct site survey for grid-connected photovoltaic and battery storage systems UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories
UEERE0071 Fault find and repair off-grid photovoltaic/generating set systems to an electrical installation	UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems UEEEL0039 Design, install and verify compliance and functionality of general electrical installations
UEERE0072 Inspect grid connected renewable energy systems	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations
UEERE0073 Inspect micro grid renewable energy systems	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations UEERE0072 Inspect grid connected renewable energy systems UEERE0074 Inspect off-grid renewable energy systems
UEERE0074 Inspect off-grid renewable energy systems	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations
UEERE0075 Install and maintain micro hydro energy systems to power conversion equipment	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems UEERE0078 Install battery storage to power conversion equipment UEERE0079 Install off-grid power conversion equipment to electrical installation
UEERE0076 Install and maintain wind energy systems to power conversion equipment	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems UEERE0078 Install battery storage to power conversion equipment UEERE0079 Install off-grid power conversion equipment to electrical installation
UEERE0077 Install battery storage equipment power conversion equipment to grid	UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories

	UEERE0054 Conduct site survey for grid-connected photovoltaic and battery storage systems
UEERE0078 Install battery storage to power conversion equipment	UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and UEERE0054 Conduct site survey for grid-connected photovoltaic and battery storage systems or UEERE0055 Conduct site survey for off-grid photovoltaic/genset systems
UEERE0079 Install off-grid power conversion equipment to electrical installation	UEEEL0039 Design, install and verify compliance and functionality of general electrical installations UEERE0055 Conduct site survey for off-grid photovoltaic/generating set systems UEERE0078 Install battery storage to power conversion equipment UEERE0081 Install photovoltaic systems to power conversion equipment
UEERE0080 Install photovoltaic power conversion equipment to grid	UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories UEERE0054 Conduct site survey for grid-connected photovoltaic and battery storage systems
UEERE0081 Install photovoltaic systems to power conversion equipment	UEEEL0012 Install low voltage wiring, appliances, switchgear and associated accessories and UEERE0054 Conduct site survey for grid-connected photovoltaic and battery storage systems or UEERE0055 Conduct site survey for off-grid photovoltaic/genset systems
UEERE0082 Maintain renewable energy (RE) apparatus	UEECD0019 Fabricate, assemble and dismantle utilities industry components UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits and UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits or UEEEL0023 Terminate cables, cords and accessories for low voltage circuits
UEERE0083 Maintain safety and tidiness of remote area power supply systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEERE0088 Work safely with remote area power supply systems
UEERE0088 Work safely with remote area power supply systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERE4011 Install bidirectional electric vehicle systems in a low voltage environment	UEERE4010 Plan the installation of bidirectional electric vehicle systems in a low voltage environment
UEERE4012 Maintain, service and fault find bidirectional systems in a low voltage environment	UEERE4010 Plan the installation of bidirectional electric vehicle systems in a low voltage environment
UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1000 V a.c. or 1500 V d.c.	UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 Volt supply
UEERL0003 Conduct in-service safety testing of electrical cord connected equipment and cord assemblies	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEERL0005 Locate and rectify faults in low voltage (LV) electrical equipment using set procedures	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEERL0004 Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring
UEERL0006 Attach HV flexible cables and plugs	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEERL0001 Attach cords and plugs to electrical equipment for connection to a single phase 230 volt supply UEERL0002 Attach cords, cables and plugs to electrical equipment for connection to 1,000 V a.c. or 1500 V d.c. supply
UEERL0007 Disconnect-reconnect 3.3 kV electric propulsion components of self-propelled earth moving vehicles	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERL0008 Disconnect-reconnect explosion-protected appliances and control devices connected to LV installation	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEERL0004 Disconnect-reconnect electrical equipment connected to low voltage (LV) installation wiring
UEERS0021 Assemble and wire electrical rail signalling equipment	UEEEL0003 Arrange circuits, control and protection for general electrical installations UEERS0020 Apply rail signalling principles
UEERS0022 Find and repair rail signalling system faults	UEERS0027 Maintain computer-based interlocking systems or UEERS0034 Maintain vital relay interlocking systems
UEERS0023 Inspect, test and certify rail power signal equipment	UEERS0022 Find and repair rail signalling system faults
UEERS0024 Install and maintain rail track circuit leads and bonds	UEERS0021 Assemble and wire electrical rail signalling equipment
UEERS0025 Maintain active level crossing equipment	UEERS0033 Maintain train detection equipment
UEERS0026 Maintain communications based signalling equipment	UEERS0020 Apply rail signalling principles
UEERS0027 Maintain computer-based interlocking rail systems	UEERS0025 Maintain active level crossing equipment UEERS0030 Maintain power-operated point actuating devices UEERS0032 Maintain trackside signal and train protection equipment
UEERS0028 Maintain mechanical rail signalling equipment and infrastructure	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERS0029 Maintain non-vital telemetry systems	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERS0030 Maintain power-operated point actuating devices	UEERS0033 Maintain train detection equipment
UEERS0031 Maintain rail signalling power supplies	UEERS0021 Assemble and wire electrical rail signalling equipment
UEERS0032 Maintain trackside signal and train protection equipment	UEERS0033 Maintain train detection equipment
UEERS0033 Maintain train detection equipment	UEERS0024 Install and maintain rail track circuit leads and bonds UEERS0031 Maintain rail signalling power supplies
UEERS0034 Maintain vital relay interlocking systems	UEERS0025 Maintain active level crossing equipment UEERS0030 Maintain power-operated point actuating devices UEERS0032 Maintain trackside signal and train protection equipment
UEERS0035 Maintain wayside asset protection equipment	UEERS0020 Apply rail signalling principles
UEERS0036 Repair rail signalling power and control cables	UEERS0021 Assemble and wire electrical rail signalling equipment
UEERS0037 Test copper rail signalling cables	UEERS0021 Assemble and wire electrical rail signalling equipment
PRE-REQUISITIES OF IMPORTED UNITS	
Unit	Pre-requisite Unit

MEM Manufacturing and Engineering Training Package	
MEM16006 Organise and communicate information	MEM13015 Work safely and effectively in manufacturing and engineering
MEM16008 Interact with computing technology	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information
MEM30033 Use computer-aided design (CAD) to create and display 3D models	MEM30031 Operate computer-aided design (CAD) system to produce basic drawing elements
MEM30033A Use computer-aided design (CAD) to create and display 3-D models	MEM30031A Operate computer-aided design (CAD) system to produce basic drawing elements
UEP Electricity Supply Industry – Generation Sector Training Package	
UEPOPS047 Maintain quality systems within the team	UEPOPS003 Apply quality systems to work
UEPOPS065 Monitor implementation of quality control for production and maintenance	UEPOPS047 Maintain quality systems within the team
UET Transmission, Distribution and Rail Sector Training Package	
UETDRIS017 - Perform high voltage field switching operation to a given schedule	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0021 Solve problems in magnetic and electromagnetic devices UETDREL001 Apply environmental requirements UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus UETDREL005 Work safely in the vicinity of live electrical apparatus UETDRIS018 Perform low voltage field switching operation to a given schedule
UETDRIS018 - Perform low voltage field switching operation to a given schedule	UEECD0007 Apply work health and safety regulations, codes and practices in the workplace UEECD0044 Solve problems in multiple path circuits UEECD0046 Solve problems in single path circuits UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications UEEEL0020 Solve problems in low voltage a.c. circuits UEEEL0021 Solve problems in magnetic and electromagnetic devices UETDREL001 Apply environmental requirements UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRIS019 - Sample, test, filter and reinstate insulating oil	UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits

	UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UEENEEK142A Apply environmentally and sustainable procedures in the energy sector UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRRF004 Perform rescue from a live LV panel	Common Unit Group HLTAID009 Provide cardiopulmonary resuscitation
UETDRMP018 Perform rescue from a live low voltage panel	HLTAID009 Provide cardiopulmonary resuscitation
UETTDNIS44 Perform HV field switching operation to a given schedule	All competencies in the Common Unit Group must have been completed, plus all competencies in one (1) of the identified Pathway Unit Group(s). Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group UETTDREL11 Apply sustainable energy and environmental procedures UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus UETTDNIS54 Install and maintain poles, structures and overhead conductors and cables UETTDRT26 Install transmission structures and associated hardware UETTDRT27 Maintain transmission structures and associated hardware UETTDRT29 Install and maintain transmission overhead conductors and cables Distribution Overhead Pathway Group UETTDREL11 Apply sustainable energy and environmental procedures UETTDNDP12 Maintain overhead energised low voltage conductors and cables UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus UETTDNIS41 Install network infrastructure electrical equipment UETTDNIS42 Maintain network infrastructure electrical equipment UETTDNIS52 Install and maintain poles, structures and associated hardware UETTDNIS54 Install and maintain poles, structures and overhead conductors and cables UETTDNIS56 Install and maintain low voltage overhead services Rail Traction Pathway Group UETTDREL11 Apply sustainable energy and environmental procedures UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus UETTDNIS52 Install and maintain poles, structures and associated hardware UETTDNIS54 Install and maintain poles, structures and overhead conductors and cables UETTDNRT21 Install traction overhead wiring systems UETTDNRT22 Maintain traction overhead wiring systems

	UETTDRT23 Install rail traction bonds UETTDRT27 Install overhead traction components and equipment UETTDRT28 Maintain overhead traction components and equipment Distribution Cable Jointing Pathway Group UETTDRCJ21 Lay ESI electrical cables UETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables UETTDREL11 Apply sustainable energy and environmental procedures UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus UETTDRI41 Install network infrastructure electrical equipment UETTDRI42 Maintain network infrastructure electrical equipment UETTDRI55 Install and maintain low voltage underground services Electrical Pathway Group UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits UEENEEG063A Arrange circuits, control and protection for general electrical installations UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits UEENEEG109A Develop and connect electrical control circuits UEENEEK142A Apply environmentally and sustainable procedures in the energy sector UETTDRI67 Solve problems in energy supply network equipment
UETTDRI47 Sample, test, filter and reinstate insulating oil	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UEENEEK142A Apply environmentally and sustainable procedures in the energy sector UETTDREL16 Working safely near live electrical apparatus
UETTDRI67 Solve problems in energy supply network equipment	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEG101A Solve problems in electromagnetic devices and

	related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
UETTDRIS68 Solve problems in energy supply network protection equipment and systems	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UETTDRIS67 Solve problems in energy supply network equipment
UETTDRIS69 Diagnose and rectify faults in energy supply apparatus	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UETTDRIS67 Solve problems in energy supply network equipment UETTDRIS68 Solve problems in energy supply network protection equipment and systems
UETTDRIS70 Diagnose and rectify faults in electrical energy distribution systems	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UETTDRIS67 Solve problems in energy supply network equipment UETTDRIS68 Solve problems in energy supply network protection equipment and systems UETTDRIS69 Diagnose and rectify faults in energy supply apparatus

UETTDRI71 Diagnose and rectify faults in electrical energy supply transmission systems	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UETTDRI67 Solve problems in energy supply network equipment UETTDRI68 Solve problems in energy supply network protection equipment and systems UETTDRI69 Diagnose and rectify faults in energy supply apparatus
UETTDRI72 Diagnose and rectify faults in distributed generation systems	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UETTDRI67 Solve problems in energy supply network equipment UETTDRI68 Solve problems in energy supply network protection equipment and systems UETTDRI69 Diagnose and rectify faults in energy supply apparatus
UETTDRI73 Develop engineering solutions for energy supply power transformer problems	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits UEENEEE126A Provide solutions to basic engineering computational problems UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits UETTDRI67 Solve problems in energy supply network equipment

	UETTDRIS68 Solve problems in energy supply network protection equipment and systems UETTDRIS69 Diagnose and rectify faults in energy supply apparatus Distribution Pathway Unit Group UETTDRIS70 Diagnose and rectify faults in electrical energy distribution systems Transmission Pathway Unit Group UETTDRIS71 Diagnose and rectify faults in electrical energy supply transmission systems Distributed Generation Pathway Unit Group UETTDRIS72 Diagnose and rectify faults in distributed generation systems
UETTDRIS74 Develop engineering solutions for energy supply system protection problems	All competencies in the Common Unit Group must have been completed, plus all competencies in one (1) of the identified Pathway Unit Group(s). Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEE125A Provide engineering solutions for problems in complex multiple path circuits UEENEEE126A Provide solutions to basic engineering computational problems UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits UETTDRIS67 Solve problems in energy supply network equipment UETTDRIS68 Solve problems in energy supply network protection equipment and systems UETTDRIS69 Diagnose and rectify faults in energy supply apparatus Distribution Pathway Unit Group UETTDRIS70 Diagnose and rectify faults in electrical energy distribution systems Transmission Pathway Unit Group UETTDRIS71 Diagnose and rectify faults in electrical energy supply transmission systems Distributed Generation Pathway Unit Group UETTDRIS72 Diagnose and rectify faults in distributed generation systems
UETTDRSB23 Install and maintain substation direct current systems	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work UEENEEG006A Solve problems in single and three phase low voltage machines

	UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits UEENEEG063A Arrange circuits, control and protection for general electrical installations UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG103A Install low voltage wiring and accessories UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UEENEEG107A Select wiring systems and cables for low voltage general electrical installations UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits UEENEEG109A Develop and connect electrical control circuits UEENEEK142A Apply environmentally and sustainable procedures in the energy sector
UETTDRSB29 Maintain capacitor bank equipment for voltage regulation	Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UEENEEK142A Apply environmentally and sustainable procedures in the energy sector
UETTDRSB39 Perform power system substation switching operation to a given schedule	All competencies in the Common Unit Group must have been completed, plus all competencies in one (1) of the identified Pathway Unit Group(s). Common Unit Group UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace UEENEEE102A Fabricate, assemble and dismantle utilities industry components UEENEEE104A Solve problems in d.c. circuits UEENEEE105A Fix and secure electrotechnology equipment UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications UEENEEG101A Solve problems in electromagnetic devices and related circuits UEENEEG102A Solve problems in low voltage a.c. circuits UETTDREL16 Working safely near live electrical apparatus Transmission Overhead Pathway Group UETTDREL11 Apply sustainable energy and environmental procedures UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus UETTDRLS54 Install and maintain poles, structures and overhead conductors and cables UETTDRTTP26 Install transmission structures and associated hardware UETTDRTTP27 Maintain transmission structures and associated hardware UETTDRTTP29 Install and maintain transmission overhead

	conductors and cables Distribution Overhead Pathway Group UETTDROP12 Maintain overhead energised low voltage conductors and cables UETTDREL11 Apply sustainable energy and environmental procedures UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus UETTDRI41 Install network infrastructure electrical equipment UETTDRI42 Maintain network infrastructure electrical equipment UETTDRI52 Install and maintain poles, structures and associated hardware UETTDRI54 Install and maintain poles, structures and overhead conductors and cables UETTDRI56 Install and maintain low voltage overhead services Rail Traction Pathway Group UETTDREL11 Apply sustainable energy and environmental procedures UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus UETTDRI52 Install and maintain poles, structures and associated hardware UETTDRI54 Install and maintain poles, structures and overhead conductors and cables UETTDRT21 Install traction overhead wiring systems UETTDRT22 Maintain traction overhead wiring systems UETTDRT23 Install rail traction bonds UETTDRT27 Install overhead traction components and equipment UETTDRT28 Maintain overhead traction components and equipment Distribution Cable Jointing Pathway Group UETTDRCJ21 Lay ESI electrical cables UETTDRCJ26 Install and maintain de-energised low voltage underground polymeric cables UETTDRCJ27 Install and maintain de-energised high voltage underground polymeric cables UETTDREL11 Apply sustainable energy and environmental procedures UETTDREL12 Operate plant and equipment near live electrical conductors and apparatus UETTDRI41 Install network infrastructure electrical equipment UETTDRI42 Maintain network infrastructure electrical equipment UETTDRI55 Install and maintain low voltage underground services Electrical Pathway Group UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work UEENEEG006A Solve problems in single and three phase low voltage machines UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits UEENEEG063A Arrange circuits, control and protection for general electrical installations UEENEEG106A Terminate cables, cords and accessories for low voltage circuits UEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits UEENEEG109A Develop and connect electrical control circuits UEENEEK142A Apply environmentally and sustainable procedures in the energy sector UETTDRI67 Solve problems in energy supply network equipment
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