

Qualification details



UEE30820 - Certificate III in Electrotechnology Electrician

Summary

Releases:	Release	Status	Release date
	3	Current	2022/03/23
	2	Replaced	2021/10/14
	1	Replaced	2020/10/05

Usage recommendation: **Current**

Mapping:	Mapping	Notes	Date
	Supersedes UEE30811 - Certificate III in Electrotechnology Electrician		2020/10/05

Training packages that include this qualification

Code	Title	Release
UEE	Electrotechnology Training Package	3.1 - 3.2

Units of competency

Code	Title	Essential
HLTAID009	Provide cardiopulmonary resuscitation	Core
UEEAS0007	Assemble, mount and connect control gear and switchgear	Elective
UEEAS0008	Fabricate and assemble bus bars	Elective
UEEAS0009	Mount and wire control panel equipment	Elective
UEECD0007	Apply work health and safety regulations, codes and practices in the workplace	Core
UEECD0016	Document and apply measures to control WHS risks associated with electrotechnology work	Core
UEECD0019	Fabricate, assemble and dismantle utilities industry components	Core
UEECD0020	Fix and secure electrotechnology equipment	Core
UEECD0028	Plan an integrated cabling installation system	Elective
UEECD0044	Solve problems in multiple path circuits	Core
UEECD0046	Solve problems in single path circuits	Core
UEECD0050	Use and maintain the integrity of a portable gas detection device	Elective
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications	Core
UEECO0023	Participate in electrical work and competency development activities	Core
UEECS0033	Use engineering applications software on personal computers	Elective
UEEDV0005	Install and maintain cabling for multiple access to telecommunication services	Elective
UEEDV0008	Install, modify and verify coaxial and structured communication copper cabling	Elective
UEEEC0003	Assemble and set up basic security systems	Elective
UEEEC0060	Repairs basic electronic apparatus faults by replacement of components	Elective
UEEEC0075	Troubleshoot single phase input d.c power supplies	Elective

Code	Title	Essential
UEEEL0003	Arrange circuits, control and protection for electrical installations	Core
UEEEL0004	Carry out basic repairs to electrical components and equipment	Elective
UEEEL0005	Develop and connect electrical control circuits	Core
UEEEL0008	Evaluate and modify low voltage heating equipment and controls	Core
UEEEL0009	Evaluate and modify low voltage lighting circuits, equipment and controls	Core
UEEEL0010	Evaluate and modify low voltage socket outlets circuits	Core
UEEEL0012	Install low voltage wiring, appliances, switchgear and associated accessories	Core
UEEEL0013	Install, set up and commission interval metering	Elective
UEEEL0014	Isolate, test and troubleshoot low voltage electrical circuits	Core
UEEEL0016	Provide advice on effective and energy efficient lighting products	Elective
UEEEL0017	Repair and maintain mechanical components of electrical machines	Elective
UEEEL0018	Select wiring systems and select cables for low voltage electrical installations	Core
UEEEL0019	Solve problems in direct current (d.c.) machines	Core
UEEEL0020	Solve problems in low voltage a.c. circuits	Core
UEEEL0021	Solve problems in magnetic and electromagnetic devices	Core
UEEEL0022	Supply effective and efficient lighting products for domestic and small commercial applications	Elective
UEEEL0023	Terminate cables, cords and accessories for low voltage circuits	Core
UEEEL0024	Test and connect alternating current (a.c.) rotating machines	Core
UEEEL0025	Test and connect transformers	Core
UEEEL0026	Align and install traction lift equipment	Elective
UEEEL0033	Conduct electrical tests on LV electrical machines	Elective
UEEEL0034	Conduct mechanical tests on electrical machines and components	Elective
UEEEL0039	Design, install and verify compliance and functionality of general electrical installations	Core
UEEEL0045	Diagnose and rectify faults in traction lift systems	Elective
UEEEL0046	Find and repair faults in LV d.c. electrical apparatus and circuits	Elective
UEEEL0047	Identify, shut down and restart systems with alternate supplies	Core
UEEEL0049	Install and maintain emergency safety systems	Elective
UEEEL0052	Maintain and service traction lift systems and equipment	Elective
UEEEL0053	Maintain operation of electrical marine equipment and systems	Elective
UEEEL0054	Maintain operation of electrical mining equipment and systems	Elective
UEEEL0055	Overhaul and repair major switchgear and control gear	Elective
UEEEL0056	Place and connect electrical coils	Elective
UEEEL0061	Provide advice on the application of energy efficient lighting for ambient and aesthetic effect	Elective
UEEEL0066	Rewind LV direct current machines	Elective
UEEEL0067	Rewind single phase machines	Elective
UEEEL0068	Rewind three phase low voltage induction machines	Elective
UEEEL0069	Select and arrange equipment for special LV electrical installations	Elective
UEEEL0074	Wind electrical coils	Elective
UEEEL0075	Inspect, test and maintain emergency alarm systems and equipment	Elective
UEEEL0076	Inspect, test and maintain emergency lighting systems	Elective
UEEHA0001	Conduct detailed inspection of electrical installations for hazardous areas	Elective
UEEHA0002	Conduct visual and close inspection of electrical installations for hazardous areas	Elective

Code	Title	Essential
UEEHA0003	Determine the explosion-protection requirements to meet a specified classified hazardous area	Elective
UEEHA0004	Enter a classified hazardous area to undertake work related to electrical equipment	Elective
UEEHA0005	Install explosion-protected equipment and associated apparatus and wiring systems	Elective
UEEHA0006	Maintain equipment associated with hazardous areas	Elective
UEEIC0002	Assemble, enter and verify operating instructions in microprocessor equipped devices	Elective
UEEIC0011	Develop electrical integrated systems	Elective
UEEIC0013	Develop, enter and verify discrete control programs for programmable controllers	Elective
UEEIC0015	Develop, enter and verify word and analogue control programs for programmable logic controllers	Elective
UEEIC0024	Plan the electrical installation of integrated systems	Elective
UEEIC0038	Solve problems in density/level measurement components and systems	Elective
UEEIC0039	Solve problems in flow measurement components and systems	Elective
UEEIC0041	Solve problems in pressure measurement components and systems	Elective
UEEIC0043	Solve problems in temperature measurement components and systems	Elective
UEEIC0047	Use instrumentation drawings, specifications, standards and equipment manuals	Elective
UEERA0035	Establish the basic operating conditions of air conditioning systems	Elective
UEERA0036	Establish the basic operating conditions of vapour compression systems	Elective
UEERA0049	Install and start up single head split air conditioning and water heating heat pump systems	Elective
UEERA0059	Prepare and connect refrigerant tubing and fittings	Elective
UEERA0064	Recover, pressure test, evacuate, charge and leak test refrigerants - split systems	Elective
UEERE0001	Apply environmentally and sustainable procedures in the energy sector	Core
UEERE0016	Install, configure and commission LV grid-connected photovoltaic power systems	Elective
UEERE0022	Solve basic problems in photovoltaic energy apparatus and systems	Elective
UEERE0049	Apply safe work practices in the rooftop solar industry	Elective
UEERS0001	Assemble and wire internal electrical rail signalling equipment	Elective
UEERS0011	Install and maintain rail track circuit leads and bonds	Elective
UEERS0017	Repair rail signalling power and control cables	Elective
UEERS0019	Test copper rail signalling cables	Elective
UETDRIS017	Perform high voltage field switching operation to a given schedule	Elective
UETDRIS018	Perform low voltage field switching operation to a given schedule	Elective
UETDRIS019	Sample, test, filter and reinstate insulating oil	Elective
UETDRRF004	Perform rescue from a live LV panel	Core
UETDRSB001	Perform substation switching operations to a given schedule	Elective
UETTDRIS67	Solve problems in energy supply network equipment	Elective
UETTDRIS68	Solve problems in energy supply network protection equipment and systems	Elective
UETTDRSB23	Install and maintain substation direct current systems	Elective
UETTDRSB29	Maintain capacitor bank equipment for voltage regulation	Elective

Classifications

Scheme	Code	Name
ANZSCO Identifier	341111	Electrician (General)

Scheme	Code	Name
ASCED Qualification/Course Field of Education Identifier	0313	Electrical And Electronic Engineering And Technology
Qualification/Course Level of Education Identifier	514	Certificate III
Taxonomy - Industry Sector	N/A	Electrotechnology
Taxonomy - Occupation	N/A	Electrician

Classifications history

Scheme	Code	Name	Start date	End date
ANZSCO Identifier	341111	Electrician (General)	2020/12/17	
ASCED Qualification/Course Field of Education Identifier	0313	Electrical And Electronic Engineering And Technology	2020/12/17	
Qualification/Course Level of Education Identifier	514	Certificate III	2020/10/05	