



Australian Government

UEE40311 Certificate IV in Installation Inspection and Audits

Release 4

UEE40311 Certificate IV in Installation Inspection and Audits

Modification History

Release	Action	Core/Elective	Details	Points
2	Edit		Edit Name to reflect correct Unit title UEENEED104A Use engineering applications software on personal computers	40
2	Update	Group A	HLTCPR211A Perform CPR	10

3	Edit	Core	Edit Name to reflect correct Unit title UEENEEK145A Implement and monitor energy sector environmental and sustainable policies and procedures	20
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4	Update	Elective	HLTAID001 - Provide cardiopulmonary resuscitation	10
4	Edit	Core	Correct title of UEENEEE101A - Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
4	Edit	Core	Correct title of UEENEEE102A - Fabricate, assemble and dismantle utilities industry components	40
4	Edit	Elective	Correct title of UEENEED101A - Use computer applications relevant to a workplace	20
4	Edit	Elective	Correct title of UEENEEG113A - Install and maintain emergency safety systems	60
4	Edit	Elective	Correct title of UEENEEG116A - Diagnose and rectify faults in traction lift systems	80
4	Edit	Elective	Correct title of UEENEEG119A - Maintain operation of electrical marine equipment and systems	60
4	Edit	Elective	Correct title of UEENEEG120A - Select and arrange equipment for special LV electrical installations	60

4	Edit	Elective	Correct title of UEENEEG125A - Plan electrical installations with a low voltage demand up to 400 A per phase	40
4	Edit	Elective	Correct title of UEENEEG126A - Install and maintain field power and distribution systems with a low voltage demand up to 200 A per phase	40
4	Edit	Elective	Correct title of UEENEEG128A - Plan low voltage switchboard and control panel layouts	40
4	Edit	Elective	Correct title of UEENEEG132A - Carry out low voltage electrical field testing and report findings	60
4	Edit	Elective	Correct title of UEENEEG168A - Diagnose and rectify faults in complex lift systems	40
4	Edit	Elective	Correct title of UEENEEG172A - Investigate and report on electrical incidents and causes	60
4	Edit	Elective	Correct title of UEENEEI101A - Use instrumentation drawings, specification, standards and equipment manuals	40
4	Edit	Elective	Correct title of UEENEEK148A - Install, configure and commission LV grid connected photovoltaic power systems	40

Description

Scope

This qualification provides competencies in mandatory and contractual inspections of electrical systems and auditing of entities for compliance with electrical safety requirements. It includes ERAC requirements for an 'Electrician's licence'.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

Not applicable.

Packaging Rules

Completion requirements

The requirements for granting this qualification will be met when competency is demonstrated and achieved for:

- All the Core competency standard units, defined in the Core Competency Standard Units table below and
- A combination of Elective competency standard units to achieve a total weighting of 220 points in accordance with the Elective Competency Standard Units table below.

Note: UEENEEG105A - Those holding an 'Unrestricted Electricians Licence or equivalent issued in an Australian State or Territory meets the requirements of this unit and its pre-requisite requirements.

Core Competency Standard Units		Weighting Points
All Core competency standard units to be achieved		
UEENEEE038B	Participate in development and follow a personal competency development plan	20
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle utilities industry components	40
UEENEEE104A	Solve problems in d.c. circuits	80
UEENEEE105A	Fix and secure electrotechnology equipment	20
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures	20
UEENEEE124A	Compile and produce an energy sector detailed report	60
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work	20
UEENEEG006A	Solve problems in single and three phase low voltage machines	80
UEENEEG033A	Solve problems in single and three phase low voltage electrical apparatus and circuits	60

UEENEEG063A	Arrange circuits, control and protection for general electrical installations	40
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
UEENEEG102A	Solve problems in low voltage a.c. circuits	80
UEENEEG103A	Install low voltage wiring and accessories	20
UEENEEG104A	Install appliances, switchgear and associated accessories for low voltage electrical installations	20
UEENEEG105A	Verify compliance and functionality of low voltage general electrical installations	40
UEENEEG106A	Terminate cables, cords and accessories for low voltage circuits	40
UEENEEG107A	Select wiring systems and cables for low voltage general electrical installations	60
UEENEEG108A	Trouble-shoot and repair faults in low voltage electrical apparatus and circuits	40
UEENEEG109A	Develop and connect electrical control circuits	80
UEENEEG122A	Conduct compliance inspection of single phase LV electrical installations	60
UEENEEG123A	Conduct compliance inspection of LV electrical installations with demand exceeding 100 A per phase	40
UEENEEK145A	Implement and monitor energy sector environmental and sustainable policies and procedures	20
Total points in core		1060

Elective Competency Standard Units

Complete Elective units to achieve a total of weighting of 220 points from the following groups:

Group	Minimum points	Maximum points
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A	Imported and Common Elective Units Imported units from other training packages and/or state accredited courses can be added to this group, but they must be selected from qualifications where the unit is first packaged at AQF level 4. If units have not been assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.	0	80
B	Qualification Elective Units	0	110
C	Qualification Elective Units You may select all your elective units from this Group	110	220

Group A – Imported and Common Elective Units		Weighting Points
You may complete units to a maximum weighting of 80		
UEENEEC001B	Maintain documentation	20
UEENEEC010B	Deliver a service to customers	20
UEENEED101A	Use computer applications relevant to a workplace	20
CPCCOHS1001A	Work safely in the construction industry	10
HLTAID001	Provide cardiopulmonary resuscitation	10
	<p>Imported units from other training packages and/or state accredited courses can be added to this group, but they must be selected from qualifications where the unit is first packaged at AQF level 4. If units have not been assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.</p> <p>Note: For further information see Application of the NQC Flexibility Formula, UEE11 Electrotechnology Training Package, Version 1, Volume 1 Qualification Framework</p>	Up to 80 points

Group B – Qualification Elective Units		Weighting Points
You may complete units to a maximum weighting of 110		
UEENEED104A	Use engineering applications software on personal computers	40
UEENEED113A	Install and maintain emergency safety systems	60
UEENEED116A	Diagnose and rectify faults in traction lift systems	80
UEENEED118A	Maintain operation of electrical mining equipment and systems	60
UEENEED119A	Maintain operation of electrical marine equipment and systems	60
UEENEED120A	Select and arrange equipment for special LV electrical installations	60
UEENEED126A	Install and maintain field power and distribution systems with a low voltage demand up to 200 A per phase	40
UEENEED171A	Install, set up and commission interval metering	20
UEENEED101A	Use instrumentation drawings, specification, standards and equipment manuals	40
UEENEED140A	Plan the electrical installation of integrated systems	20
UEENEED141A	Develop electrical integrated systems	20
UEENEED125A	Solve basic problems in photovoltaic energy apparatus and systems	20
UEENEED148A	Install, configure and commission LV grid connected photovoltaic power systems	40
UEENEED038A	Conduct testing of hazardous areas installations — coal mining	40
UEENEED039A	Conduct testing of hazardous areas installations — gas atmospheres	40
UEENEED040A	Conduct testing of hazardous areas installations — dust atmospheres	40

UEENEEM041A	Conduct testing of hazardous area installations — pressurisation	40
UEENEEM042A	Conduct visual inspection of hazardous areas installations	40
UEENEEM080A	Report on the integrity of explosion-protected equipment in a hazardous area	20

Group C – Qualification Elective Units		Weighting Points
You must complete units to a minimum weighting of 110 You may select all your elective units from this Group		
UEENEEM121A	Verify compliance and functionality of special LV electrical installations	40
UEENEEM124A	Conduct compliance inspection of special LV electrical installations	60
UEENEEM125A	Plan LV electrical installations with a demand up to 400A per phase	40
UEENEEM128A	Plan low voltage switchboard and control panel layouts	40
UEENEEM132A	Carry out low voltage electrical field testing and report findings	60
UEENEEM162A	Set up and place LV electrical apparatus and associated circuits into service	40
UEENEEM168A	Diagnose and rectify faults in complex lift systems	40
UEENEEM172A	Investigate and report on electrical incidents and causes	60
UEENEEM175A	Develop compliance policies and plans to conduct a electrical contracting business	80

Note:

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

END OF QUALIFICATION

Custom Content Section

Not applicable.