



**Australian Government**

# **UET40612 Certificate IV in ESI - Power Systems Network Infrastructure**

**Release: 2**

## UET40612 Certificate IV in ESI — Power Systems Network Infrastructure

### Modification History

Release	Action	Core/Elective	Details	Points
2	Update	Core	Update name of unit UEENEEE102A Fabricate, assemble and dismantle utilities industry components	40

### Description

#### Scope:

This qualification provides competencies to select, install, set up, test, fault find, repair and maintain electrical systems and equipment in building and premises. It includes ERAC requirements for an 'Electrician's licence'. It's also provide acquire skills and knowledge needed for a career in installation and maintenance of network infrastructure, namely, Transmission, Distribution or Rail Traction in the Electricity Supply Industry.

### 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 340 points in accordance with the Elective Competency Standard Units table below.
- All the required prerequisite competency standard units have been met.

Core Units — All to be completed		Weighting Points
UEENEEE101A	Apply Occupational Health 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, cords and specifications	40
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
UEENEEK142A	Apply environmentally and sustainable procedures in the energy sector	20
UETTDREL16A	Working safely near live electrical apparatus	20
UETTDRLS62A	Implement and monitor the power systems organisational OHS policies, procedures and programs	30
UETTDRLS63A	Implement and monitor power systems environmental and sustainable energy management policies and procedures	30
<b>Total points in core</b>		<b>940</b>

**Elective Competency Standard Units**  
 At least a weighting of 340 points to be achieved. Must achieve at least 200 points from Group C

Group	Rules	Minimum points	Maximum points
A	<b>Imported and Common Elective Units</b> 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 being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.	0	50
B	<b>Qualification Electives</b> You may select units from this group to a maximum weighting of 140 points	0	140
C	<b>Qualification Electives</b> At least 200 points to be achieved from this group. You may select all your elective units from this Group.	200	340

<b>Group A Imported and Common Elective Units</b>		<b>Weighting Points</b>
You may select units from this group to a maximum weighting of 50 points		
BSBWOR401A	Implement effective workplace relationships	50
BSBMGT402A	Implement operational plan	40
BSBINM401A	Implement workplace information system	40
BSBMGT403A	Implement continuous improvement	40
BSBWOR402A	Promote team effectiveness	50
	<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 being 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, Page 10, UET12 Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package, Version 1, Volume 1 Qualification Framework.</p>	Up to 50 Points

<b>Group B You may select units from this group to a maximum weighting of 140 points</b>		<b>Weighting Points</b>
UEENEEG171A	Install, set up and commission interval metering	20
UETTDRIS43A	Perform low voltage field switching operation to a given schedule.	50
UETTDRIS44A	Perform HV field switching operation to a given schedule	50
UETTDRIS47A	Sample, test, filter and reinstate insulating oil	40
UETTDRIS67A	Solve problems in energy supply network equipment	80
UETTDRIS68A	Solve problems in energy supply network protection equipment and systems	40
UETTDRSB39A	Perform power system substation switching operation to a given schedule	50

<b>Group C At least 200 points to be achieved from this group.</b> You may select all your elective units from this Group.		<b>Weighting Points</b>
UEENEEG076A	Install and replace low voltage current transformer metering	20
UETTDRCJ33A	Install and maintain network infrastructure LV underground cables	40
UETTDRCJ34A	Install and maintain network infrastructure HV underground cables	50
UETTDRDP15A	Inspect, maintain and restore energised low voltage overhead distribution network infrastructure	50
UETTDRIS45A	Install and maintain ESI overhead distribution network infrastructure	40
UETTDRIS46A	Install and maintain ESI network infrastructure electrical equipment	40
UETTDRIS48A	Develop high voltage switching schedule	40
UETTDRIS49A	Develop low voltage switching schedule	40
UETTDRIS50A	Coordinate power system permit procedures	40
UETTDRIS51A	Coordinate and direct power system switching schedules	40
UETTDRRT34A	Install and maintain traction network wiring	40

<b>Group C At least 200 points to be achieved from this group.</b> You may select all your elective units from this Group.		<b>Weighting Points</b>
	systems	
UETDRRT35A	Install and maintain traction network equipment and components	40
UETDRRT36A	Maintain traction network wiring systems	40
UETDRRT37A	Maintain traction network components and equipment	40
UETDRTP34A	Install/maintain overhead transmission network infrastructure	40
UETDRTP35A	Install/maintain transmission network infrastructure electrical equipment	40
UETDRTS37A	Perform current injection testing using phantom load	40
UETDRTS38A	Install and replace high voltage metering and associated equipment	40

Note:

1. Prerequisite pathways shall be identified and met for all elective units selected.

**END OF QUALIFICATION**

## **Custom Content Section**

Not applicable.