



Australian Government

Department of Education, Employment and Workplace Relations

UET40412 Certificate IV in ESI - Network Systems

Release: 1

UET40412 Certificate IV in ESI — Network Systems

Modification History

Not applicable.

Description

Scope:

Those gaining this qualification will be able to acquire additional skills and knowledge needed for a career in one of four specific fields, namely, Live Line Transmission, Live Line Distribution, Live Line Rail Traction and or installation and maintenance of Specialised Underground Cables.

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 740 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
CPCCLDG3001A	Licence to perform dogging	20
TLILIC2005A	Licence to operate a boom-type elevating work platform (boom length 11 metres or more)	40
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, dismantle and assemble utilities 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
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
UEENEEG102A	Solve problems in low voltage a.c. circuits	80
UETTDREL11A	Apply sustainable energy and environmental procedures	20
UETTDREL12A	Operate plant and equipment near live electrical conductors and apparatus	40
UETTDREL16A	Working safely near live electrical apparatus	20
UETTDRLS62A	Implement and monitor the power system organisational OHS policies, procedures and programs	30
UETTDRLS63A	Implement and monitor the power system environmental and sustainable energy management policies and procedures	30

Total points in core	540
-----------------------------	------------

Elective Competency Standard Units

At least a weighting of 740 points to be achieved. Must achieve at least 320 points from Group C

Group	Rules	Minimum points	Maximum points
A	<p>Imported and Common Elective Units</p> <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>	0	60
B	<p>Qualification Electives</p> <p>You may select units from this group to a maximum weighting of 420 points</p>	0	420
C	<p>Qualification Electives</p> <p>At least 320 points to be achieved from this group. You may select all your elective units from this Group.</p>	320	740

Group A – Imported Elective Units		Weighting Points
You may complete units to a maximum weighting of 60 points		
BSBINM401A	Implement workplace information system	40
BSBMGT402A	Implement operational plan	40
BSBMGT403A	Implement continuous improvement	40
BSBWOR401A	Implement effective workplace relationships	50
BSBWOR402A	Promote team effectiveness	50
CPCCLRG3001A	Licence to perform rigging basic level	40
AHCARB205A	Operate and maintain chainsaws	20
	Imported units from other training packages and/or state accredited courses can be added to this group,	Up to 60 Points

	<p>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>	
--	--	--

Group B – Qualification Electives		Weighting Points
You may select units from this group to a maximum weighting of 420 points		
UETTDRCJ21A	Lay ESI electrical cables	20
UETTDRCJ22A	Install and maintain de-energised low voltage underground paper insulated cables.	40
UETTDRCJ23A	Install and maintain de-energised high voltage underground paper insulated cables.	60
UETTDRCJ24A	Joint and maintain energised low voltage underground paper insulated cables	60
UETTDRCJ25A	Perform straight through high voltage paper insulated to polymeric transition joint	50
UETTDRCJ26A	Install and maintain de-energised low voltage underground polymeric cables.	50
UETTDRCJ27A	Install and maintain de-energised high voltage underground polymeric cables.	50
UETTDRCJ28A	Joint and maintain energised low voltage underground polymeric cables	50
UETTDRCJ99A	Test and verify distribution cable jointing installations	40
UETTD RDP11A	Inspect overhead poles/structures and electrical apparatus	50
UETTD RDP12A	Maintain overhead energised low voltage conductors and cables	60
UETTD RDP99A	Test and verify distribution overhead installations	40
UETTD RIS41A	Install network infrastructure electrical equipment	60
UETTD RIS42A	Maintain network infrastructure electrical	60

	equipment	
--	-----------	--

UETTDNIS44A	Perform HV field switching operation to a given schedule	50
UETTDNIS52A	Install and maintain poles, structures and associated hardware	50
UETTDNIS54A	Install and maintain overhead conductors and cables	60
UETTDNIS55A	Install and maintain low voltage underground services	40
UETTDNIS56A	Install and maintain low voltage overhead services	40
UETTDNIS57A	Conduct visual checking and treatment of power system poles and structures	30
UETTDNIS58A	Locate faults in power system underground power cables	60
UETTDNIS59A	Conduct high potential testing of power system underground power cables	50
UETTDNIS60A	Install and replace power system energy meters and associated equipment	50
UETTDNIS61A	Install mobile generation set for synchronised LV Genset	50
UETTDNRRT21A	Install traction overhead wiring systems	50
UETTDNRRT22A	Maintain traction overhead wiring systems	60
UETTDNRRT23A	Install rail traction bonds	40
UETTDNRRT24A	Maintain rail traction bonds	50
UETTDNRRT25A	Install overhead rail traction configurations	50
UETTDNRRT26A	Maintain overhead rail traction configurations	60
UETTDNRRT27A	Install overhead traction components and equipment	50
UETTDNRRT28A	Maintain overhead traction components and equipment	60
UETTDNRRT29A	Operate rail road traction height access equipment.	20
UETTDNRRT30A	Perform to a given schedule rail traction switching operations	50
UETTDNRRT99A	Test and verify rail traction installations	40
UETTDNRSB39A	Perform power system substation switching operation to a given schedule	50
UETTDNRTP26A	Erect power systems transmission structures and associated hardware	60

UETTD RTP27A	Maintain power systems transmission structures and associated hardware	60
UETTD RTP29A	Install and maintain overhead transmission conductors and cables	60
UETTD RTP30A	Inspect overhead structures and electrical apparatus	40
UETTD RTP99A	Test and verify transmission overhead installations	40
UETTD RVC29A	Control vegetation whilst performing linework	40

Group C At least 320 points to be achieved from this group You may select all your elective units from this Group.		Weighting Points
UETTD R C J29A	Install gas and oil filled specialised underground cables	60
UETTD R C J30A	Maintain gas and oil filled specialised underground cables	60
UETTD R C J31A	Install and maintain polymeric specialised underground cables	65
UETTD R C J32A	Install and maintain gas and oil pressure systems for specialised underground cables	65
UETTD R D P13A	Maintain energised HV distribution overhead electrical apparatus (stick)	70
UETTD R D P14A	Maintain energised HV distribution overhead electrical apparatus (glove)	70
UETTD R D S31A	Draft and layout a power system overhead distribution extension	60
UETTD R D S32A	Draft and layout a power system underground distribution extension	60
UETTD R D S33A	Draft and layout a power system street lighting system	60
UETTD R D S34A	Draft and layout a power system distribution substation minor upgrade	60
UETTD R I S48A	Develop high voltage switching schedule	60
UETTD R I S49A	Develop low voltage switching schedule	90
UETTD R I S50A	Coordinate power system permit procedures	60
UETTD R I S51A	Coordinate and direct power system switching schedules	60
UETTD R I S64A	Install mobile generation set for synchronised HV Genset	40

UETTDNIS65A	Contribute to coordinated HV live line work	50
UETTDNRRT31A	Maintain energised d.c. traction overhead wiring system	60
UETTDNRRT32A	Maintain energised traction overhead electrical apparatus using stick techniques	70
UETTDNRRT33A	Maintain energised traction overhead electrical apparatus using glove techniques	70
UETTDNRTP31A	Maintain energised transmission lines using high voltage live work stick method	70
UETTDNRTP32A	Maintain energised transmission lines using high voltage live work Barehand method	70
UETTDNRTP33A	Maintain energised transmission lines using Barehand Technique on a helicopter platform	60
UETTDNRVC30A	Coordinate vegetation control operations	60

Note:

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

END OF QUALIFICATION

Custom Content Section

Not applicable.