



Australian Government

UEP40318 Certificate IV in ESI Generation Maintenance - Electrical Electronics

Release 1

UEP40318 Certificate IV in ESI Generation Maintenance - Electrical Electronics

Modification History

Release 1. This is the first release of this qualification in the UEP - Electricity Supply Industry - Generation Sector Training Package.

Qualification Description

Participants gaining this qualification will be able to manufacture, fit, assemble, erect, operate, test, find and diagnose faults and alter and repair electrical and electronic equipment including instrumentation systems. It does not include installation of any electrical wiring systems within an electrical installation as prescribed in current industry standards.

Functions can include maintenance planning and scheduling as well as electrical wiring work if it is associated with assembling, maintaining, terminating or altering the wiring between electrical components within power generating plant or machinery. It also includes the supervision of others and the coordination of work activities.

Electrical equipment means any appliance, article, accessory, wire, fitting, cable, conduit or apparatus that generates, uses, conveys or controls, or that is intended to generate, use, convey or control, electricity above extra low voltage.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

A total 1280 weighting points comprising 820 core weighting points, plus 460 elective weighting points from the general elective units listed below.

Choose a total of 460 weighting points from the elective units list below of which between 0 and 220 weighting points can be taken from Group A. A total of 220 weighting points can be selected from Group B. Between 240 and 460 weighting points may be taken from Group C, you may select all your elective units from this group.

Up to 220 weighting points of the general elective units Group A, may be selected, with appropriate contextualisation, from any relevant nationally endorsed Training Package or accredited course, provided that selected units contribute to the vocational outcome of the qualification. Previously assigned weighting points are listed in UEP CVIG, if not listed weighting points will be 10 points unless directed from the ESI Generation Industry Reference

Committee (IRC). The general elective units must contribute to the vocational outcomes of the qualification.

Where imported units are selected, care must be taken to ensure that all prerequisite units specified are complied with.

Where a prerequisite unit is attached to a unit, it is identified by this symbol ⊥.

Core units		Weighting points
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, assemble and dismantle, utilities industry components ⊥ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE104A	Solve problems in D.C. circuits ⊥ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	80
UEENEEE105A	Fix and secure electrotechnology equipment ⊥ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications ⊥ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures	20
UEENEEE137A	Document and apply measures to control OHS risks associated with electrotechnology work ⊥ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEENEEG006A	Solve problems in single and three phase low voltage machines ⊥ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace ⊥ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components ⊥ UEENEEE104A Solve problems in D.C circuits	80

	<ul style="list-style-type: none">└ 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. circuit└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEENEEG033A	<p>Solve problems in single and three phase low voltage electrical apparatus and circuits</p> <ul style="list-style-type: none">└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace└ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology 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. circuit└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	60
UEENEEG063A	<p>Arrange circuits, control and protection for general electrical installations</p> <ul style="list-style-type: none">└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace└ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology 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	40

	devices and related circuits	
	└ UEENEEG102A Solve problems in low voltage A.C. circuit	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE104A Solve problems in D.C circuits	
UEENEEG102A	Solve problems in low voltage A.C circuits	80
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE104A Solve problems in D.C circuits	
	└ UEENEEG101A Solve problems in electromagnetic devices and related circuits	
UEENEEG106A	Terminate cables, cords and accessories for low voltage circuits	40
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, assemble and dismantle utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
UEENEEG108A	Troubleshoot and repair faults in low voltage electrical apparatus and circuits	40
	└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	

	<ul style="list-style-type: none"> └ UEENEEG006A Solve problems in single and three phase low voltage machines └ UEENEEG033A Solve problems in single and three phase 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 └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits 	
UEENEEG109A	Develop and connect electrical control circuits	80
	<ul style="list-style-type: none"> └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components └ UEENEEE104A Solve problems in D.C circuits └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEG006A Solve problems in single and three phase low voltage machines └ 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. circuit └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuit 	
UEPOPS338	Facilitate workplace communication	20
UEPOPS371	Carry out operational checks on in-service electrical plant	40
UEPOPS417	Monitor and implement environmental site plans and procedures	20

UEPOPS430	Control permit to work operations	20
Group A elective units		Weighting points
UEENEEC001B	Maintain documentation	20
BSBCUS201	Deliver a service to customers	20
UEENEEED101A	Use computer applications relevant to a workplace └ UEENEEEE101A Apply Work, Health Safety regulations, codes and practices in the workplace.	20
UEENEEED104A	Use engineering applications software on personal computers └ UEENEEEE101A Apply Work, Health Safety regulations, codes and practices in the workplace	40
UEENEEEE124A	Compile and produce an energy sector detailed report	60
BSBCUS401	Coordinate implementation of customer service strategies	40
BSBINM401	Implement workplace information system	40
BSBINN301	Promote innovation in a team environment	40
BSBLED401	Develop teams and individuals	40
BSBMGT402	Implement operational plan	40
BSBMGT403	Implement continuous improvement	40
BSBLDR402	Lead effective workplace relationships	50
BSBLDR403	Lead team effectiveness	50
BSBWOR404	Develop work priorities	40
TAEDEL301	Provide work skill instruction	40
Group B elective units		Weighting points
UEENEEF102A	Install and maintain cabling for multiple access to telecommunication services	120

	<ul style="list-style-type: none"> └ 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 	
UEENEEF105A	Install and modify optical fibre performance data communication cabling <ul style="list-style-type: none"> └ 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 └ UEENEEF102A Install and maintain cabling for multiple access to telecommunication services 	40
UEENEEI101A	Use instrumentation drawings, specifications, standards and equipment manuals <ul style="list-style-type: none"> └ UEENEEE101A Apply Work, Health Safety regulations, codes and practices in the workplace` └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications 	40
UEENEEI107A	Install instrumentation and control cabling and tubing <ul style="list-style-type: none"> └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace └ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEI101A Use instrumentation drawings, specification, standards and equipment manuals 	20
UEENEEI108A	Install instrumentation and control apparatus and associated equipment <ul style="list-style-type: none"> └ UEENEEE101A Apply Work, Health Safety 	20

	regulations, codes and practices in the workplace`	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications	
	└ UEENEEI101A Use instrumentation drawings, specification, standards and equipment manuals	
UEPMNT319	Maintain and test fixed fire protection systems	20
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT345	Install electronic equipment	40
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work	

	<ul style="list-style-type: none"> └ 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 └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits └ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits └ UEENEEG109A Develop and connect electrical control circuits 	
UEPMNT346	<p>Maintain electrical equipment</p> <ul style="list-style-type: none"> └ UEENEEG108A Trouble shoot and repair faults in low voltage electrical apparatus and circuits └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications └ 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 └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits 	40
UEPMNT347	Maintain complex electrical equipment	60

	└ UEPMNT346 Maintain electrical equipment	
UEPMNT348	Maintain electrical electronic equipment	40
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT350	Modify electrical equipment	40
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT351	Test and commission electrical equipment	40
	└ UEENEEG108A Troubleshoot and repair faults in	

low voltage electrical apparatus and circuits

└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components

└ UEENEEE104A Solve problems in D.C. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications

└ 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

└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

UEPMNT352 Test and commission electronic electrical equipment 40

└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits

└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components

└ UEENEEE104A Solve problems in D.C. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications

└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuit	
UEPMNT355	Install complex electronic instrumentation equipment	40
	└ UEENEEI108A Install instrumentation and control apparatus and associated equipment	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
UEPMNT356	Maintain instrumentation equipment	40
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
UEPMNT357	Diagnose and repair faults in instrumentation equipment	60
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
UEPMNT358	Modify instrumentation equipment	40
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
UEPMNT359	Test and commission instrumentation equipment	40
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology	

	equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
UEPMNT362	Maintain wind turbine control systems	60
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT366	Maintain power plant inverter systems	60
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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

└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

UEPOPS202	Apply quality systems to work	20
UEPOPS301	Conduct single energy source isolation procedures for permit to work	40
UEPOPS337	Maintain quality systems within the team	20
	└ UEPOPS202 Apply quality systems to work	

Group C elective units

Weighting points

UEENEEC005B	Estimate electrotechnology projects	40
UEPMNT410	Diagnose and repair faults in electronic equipment	60
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT411	Diagnose and repair faults in complex electrical equipment	60
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuit	
UEPMNT412	Modify complex electrical equipment	60
	└ UEPMNT350 Modify electrical equipment	
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT413	Modify electronic electrical equipment	60
	└ UEPMNT350 Modify electrical equipment	
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT414	Test and commission complex electrical equipment	60
	└ UEPMNT351 Test and commission electrical equipment	
	└ UEENEEG108A Troubleshoot and repair faults in	

low voltage electrical apparatus and circuits

└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components

└ UEENEEE104A Solve problems in D.C. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications

└ 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

└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

UEPMNT415 Diagnose and repair faults in complex refrigeration and air conditioning equipment 60

└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits

└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components

└ UEENEEE104A Solve problems in D.C. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications

└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuit	
UEPMNT416	Overhaul electrical generator	80
	└ UEPMNT351 Test and commission electrical equipment	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT417	Inspect electrical generators and diagnose faults	80
	└ UEPMNT351 Test and commission electrical equipment	
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	

	<ul style="list-style-type: none"> └ 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 └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuit 	
UEPMNT421	<p>Conduct technical inspection of process plant and equipment</p> <ul style="list-style-type: none"> └ UEPMNT351 Test and commission electrical equipment └ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components └ UEENEEE104A Solve problems in D.C. circuits └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications └ 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 └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits 	60
UEPMNT422	<p>Conduct performance testing on process plant and equipment</p>	60

	<ul style="list-style-type: none"> └ UEPMNT351 Test and commission electrical equipment └ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components └ UEENEEE104A Solve problems in D.C. circuits └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications └ 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 └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuit 	
UEPMNT424	<p>Monitor efficiency of thermal steam cycle power plant</p> <ul style="list-style-type: none"> └ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components └ UEENEEE104A Solve problems in D.C. circuits └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications └ 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 	60

	<ul style="list-style-type: none"> └ 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 	
UEPMNT425	Maintain complex instrumentation equipment <ul style="list-style-type: none"> └ UEPMNT356 Maintain instrumentation equipment └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications 	80
UEPMNT426	Maintain electronic instrumentation equipment <ul style="list-style-type: none"> └ UEPMNT356 Maintain instrumentation equipment └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications 	80
UEPMNT427	Diagnose and repair faults in complex instrumentation equipment <ul style="list-style-type: none"> └ UEPMNT356 Maintain instrumentation equipment └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications 	80
UEPMNT428	Modify complex instrumentation equipment <ul style="list-style-type: none"> └ UEPMNT356 Maintain instrumentation equipment └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components └ UEENEEE105A Fix and secure electrotechnology equipment 	80

	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
UEPMNT429	Modify electronic instrumentation equipment	80
	└ UEPMNT356 Maintain instrumentation equipment	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
UEPMNT430	Test and commission complex instrumentation equipment	80
	└ UEPMNT359 Test and commission instrumentation equipment	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
UEPMNT431	Test and commission electronic instrumentation equipment	80
	└ UEPMNT359 Test and commission instrumentation equipment	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
UEPMNT432	Write programs for control systems	80
	└ UEPMNT351 Test and commission electrical equipment	
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	

	<ul style="list-style-type: none"> └ UEENEEE104A Solve problems in D.C. circuits └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications └ 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 └ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits 	
UEPMNT433	<p>Conduct routine generator electrical maintenance</p> <ul style="list-style-type: none"> └ UEPMNT346 Maintain electrical equipment └ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits └ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components └ UEENEEE104A Solve problems in D.C. circuits └ UEENEEE105A Fix and secure electrotechnology equipment └ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications └ 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 └ UEENEEG106A Terminate cables, cords and 	60

accessories for low voltage circuits

UEPMNT434 Diagnose and repair faults in wind turbine control systems 80

└ UEPMNT362 Maintain wind turbine control systems

└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits

└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components

└ UEENEEE104A Solve problems in D.C. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications

└ 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

└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuit

UEPMNT436 Test and commission wind turbine control systems 80

└ UEPMNT362 Maintain wind turbine control systems

└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits

└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components

└ UEENEEE104A Solve problems in D.C. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications

└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT440	Diagnose and repair faults in power plant inverter systems	60
	└ UEPMNT366 Maintain power plant inverter systems	
	└ UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits	
	└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components	
	└ UEENEEE104A Solve problems in D.C. circuits	
	└ UEENEEE105A Fix and secure electrotechnology equipment	
	└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications	
	└ 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	
	└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	
UEPMNT441	Test and commission power plant inverter systems	60
	└ UEPMNT366 Maintain power plant inverter systems	
	└ UEENEEG108A Troubleshoot and repair faults in	

low voltage electrical apparatus and circuits

└ UEENEEE102A Fabricate, dismantle, assemble of utilities industry components

└ UEENEEE104A Solve problems in D.C. circuits

└ UEENEEE105A Fix and secure electrotechnology equipment

└ UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications

└ 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

└ UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

UEPOPS402 Conduct multiple energy source isolation procedures for permit to work 40

└ UEPOPS301 Conduct single energy source isolation procedures for permit to work.

UEPOPS439 Plan and organise work 30

Qualification Mapping Information

This qualification replaces and is equivalent to UEP40512 Certificate IV in ESI Generation Maintenance - Electrical Electronics

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>