



Australian Government

UEP30322 Certificate III in ESI Generation

Release 1

UEP30322 Certificate III in ESI Generation

Modification History

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

Qualification Description

This qualification covers the skills and knowledge required to operate power generation plant systems, isolate power generation plant systems, and undertake routine maintenance on power generation plant and equipment in the electrical supply industry (ESI).

It also includes working with civil plant and infrastructure and observing safe working practices.

Combined Specialist - Operations and Systems Operations

This specialisation covers the skills and knowledge required to perform operations and systems operations.

Specialist - Operations

This specialisation covers the skills and knowledge required to perform operations.

Specialist - Systems Operations

This specialisation covers the skills and knowledge required to perform systems operations.

Please note: RTO to insert on the testamur, the specialisation selected from the specialist elective unit group below.

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 of **31 units of competency** for the Combined Specialisation – Operations and Systems Operations

A total of **28 units of competency** for the Specialisation - Operations

A total of **28 units of competency** for the Specialisation - Systems Operations

comprising:

Combined Specialisation - Operations and Systems Operations

- 9 core units listed below; plus

- 3 specialisation units from Group A; plus
- 3 specialisation units from Group B; plus
- 12 elective units from Group C; plus
- 4 elective units may be selected from Group C or with appropriate contextualisation from a qualification in this or any endorsed Training Package, provided selected units contribute to the vocational outcome of the qualification.

Specialisation – Operations

- 9 core units listed below; plus
- 3 specialisation units from Group A; plus
- 12 elective units from Group C; plus
- 4 elective units may be selected from Group C or with appropriate contextualisation from a qualification in this or any endorsed Training Package, provided selected units contribute to the vocational outcome of the qualification.

Specialisation – Systems Operations

- 9 core units listed below; plus
- 3 specialisation units from Group B; plus
- 12 elective units from Group C; plus
- 4 elective units may be selected from Group C or with appropriate contextualisation from a qualification in this or any endorsed Training Package, provided selected units contribute to the vocational outcome of the qualification.

Where imported units are selected, care must be taken to ensure all prerequisite units specified are complied with. Prerequisites attached to any of the units must be obtained and are additional to the number of units required for the qualification.

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

Core units

UEECD0007	Apply work health and safety regulations, codes and practices in the workplace
UEPOPS002	Apply environmental and sustainable energy procedures
UEPOPS003	Apply quality systems to work
UEPOPS017	Conduct single energy source isolation procedures for permit to work
UEPOPS037	Ensure compliance with work health and safety policy and procedures
UEPOPS044	Liaise with stakeholders
UEPOPS045	Maintain and utilise records
UEPOPS122	Perform process plant inspections
UEPOPS145	Undertake local systems operations

Group A: Specialist Electives - Operations

- UEPOPS004 Carry out operational checks on in-service electrical plant
- UEPOPS014 Conduct operational checks on in-service mechanical plant
- UEPOPS130 Respond to a critical incident

Group B: Specialist Electives - Systems Operations

- UEPOPS001 Analyse single protection device operation
- UEPOPS092 Operate and monitor fixed fire protection systems
- UEPOPS107 Operate and monitor supervisory control and data acquisition systems

Group C: General Electives

- BSBHRM413 Support the learning and development of teams and individuals
- BSBLDR301 Support effective workplace relationships
- BSBOPS301 Maintain business resources
- BSBOPS402 Coordinate business operational plans
- BSBPEF301 Organise personal work priorities
- BSBSTR301 Contribute to continuous improvement
- BSBSTR401 Promote innovation in team environments
- BSBTWK201 Work effectively with others
- CPCCCM2007 Use explosive power tools
└ CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
- CPCCLDG3001 Licence to perform dogging
- CPCCLHS3001 Licence to operate a personnel and materials hoist
- CPCCLHS3002 Licence to operate a materials hoist
- CPCCLRG3001 Licence to perform rigging basic level
└ CPCCLDG3001 Licence to perform dogging
- CPCCLRG3002 Licence to perform rigging intermediate level
└ CPCCLRG3001 Licence to perform rigging basic level

- CPCCLRG4001 Licence to perform rigging advanced level
 - └ CPCCLRG3002 Licence to perform rigging intermediate level
- CPCCLSF2001 Licence to erect, alter and dismantle scaffolding basic level
- CPCCLSF3001 Licence to erect, alter and dismantle scaffolding intermediate level
 - └ CPCCLSF2001 Licence to erect, alter and dismantle scaffolding basic level
- CPCCLSF4001 Licence to erect, alter and dismantle scaffolding advanced level
 - └ CPCCLSF3001 Licence to erect, alter and dismantle scaffolding intermediate level
- CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry
- MEM05004 Perform routine oxy fuel gas welding
 - └ MEM11011 Undertake manual handling
 - └ MEM13015 Work safely and effectively in manufacturing and engineering
 - └ MEM16006 Organise and communicate information
- MEM05007 Perform manual heating and thermal cutting
 - └ MEM09002 Interpret technical drawing
 - └ MEM11011 Undertake manual handling
 - └ MEM12023 Perform engineering measurements
 - └ MEM13015 Work safely and effectively in manufacturing and engineering
 - └ MEM16006 Organise and communicate information
- MEM05012 Perform routine manual metal arc welding
 - └ MEM11011 Undertake manual handling
 - └ MEM13015 Work safely and effectively in manufacturing and engineering
 - └ MEM16006 Organise and communicate information
- MEM09002 Interpret technical drawing
 - └ MEM12023 Perform engineering measurements
 - └ MEM12024 Perform computations
 - └ MEM13015 Work safely and effectively in manufacturing and engineering
 - └ MEM16006 Organise and communicate information
- MEM11011 Undertake manual handling
 - └ MEM13015 Work safely and effectively in manufacturing and engineering

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NWPCAD008	Monitor and control dam operations
NWPCAD009	Monitor and implement dam maintenance
NWPCAD012	Route floods through storages
RIIHAN309F	Conduct telescopic materials handler operations
RIIMPO304E	Conduct wheel loader operations
RIIMPO308F	Conduct tracked dozer operations
RIIMPO309F	Conduct wheeled dozer operations
RIIMPO318F	Conduct civil construction skid steer loader operations
RIIMPO319E	Conduct backhoe/loader operations
TLILIC0003	Licence to operate a forklift truck
UEECD0019	Fabricate, assemble and dismantle utilities industry components
	└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEPOPS001	Analyse single protection device operation
UEPOPS004	Carry out operational checks on in-service electrical plant
UEPOPS005	Clean plant and equipment
UEPOPS008	Operate and monitor control room site in a multi-function environment
UEPOPS009	Conduct minor electrical maintenance

UEPOPS010	Conduct minor mechanical maintenance
UEPOPS012	Conduct non-routine operational testing
UEPOPS014	Conduct operational checks on in-service mechanical plant
UEPOPS018	Conduct water conveyance and control
UEPOPS040	Facilitate the use of contingency plans for power generation facilities
UEPOPS041	Facilitate workplace communication
UEPOPS042	Implement dam safety surveillance procedures
UEPOPS047	Maintain quality systems within the team └ UEPOPS003 Apply quality systems to work
UEPOPS059	Manage, operate and monitor a gas turbine unit
UEPOPS062	Monitor and maintain civil assets
UEPOPS063	Monitor and maintain wind farm civil assets
UEPOPS064	Monitor climatic conditions for renewable energy production
UEPOPS067	Monitor the implementation of under frequency load shedding
UEPOPS068	Operate a hydro generator synchronous condenser pump unit
UEPOPS070	Operate and monitor a boiler unit
UEPOPS072	Operate and monitor a hydro turbine
UEPOPS073	Operate and monitor a steam turbine
UEPOPS076	Operate and monitor air conditioning plant and ventilation systems
UEPOPS077	Operate and monitor alkalinity reduction plant
UEPOPS081	Operate and monitor auxiliary steam systems
UEPOPS082	Operate and monitor boiler draught system
UEPOPS083	Operate and monitor boiler steam/water cycle
UEPOPS084	Operate and monitor brine concentrator plant
UEPOPS085	Operate and monitor communications system
UEPOPS086	Operate and monitor compressed air systems

UEPOPS087	Operate and monitor compressed gas systems
UEPOPS088	Operate and monitor condenser and auxiliary cooling systems
UEPOPS090	Operate and monitor dual fuel firing plant
UEPOPS092	Operate and monitor fixed fire protection systems
UEPOPS094	Operate and monitor fuel firing plant - coal
UEPOPS095	Operate and monitor fuel firing plant - gas/oil
UEPOPS096	Operate and monitor fuel supply
UEPOPS098	Operate and monitor gas production plant
UEPOPS099	Operate and monitor generator/alternator
UEPOPS100	Operate and monitor heat exchangers and cooling systems
UEPOPS101	Operate and monitor HRSG hot gas control system
UEPOPS102	Operate and monitor hydro plant auxiliary systems
UEPOPS104	Operate and monitor oil systems
UEPOPS105	Operate and monitor reverse osmosis plant
UEPOPS107	Operate and monitor supervisory control and data acquisition systems
UEPOPS109	Operate and monitor water quality monitoring systems
UEPOPS110	Operate and monitor water systems condensate and feedwater
UEPOPS111	Operate and monitor water treatment plant
UEPOPS112	Operate bulk coal handling plant
UEPOPS113	Operate fabric filter dust collection plant
UEPOPS114	Operate H.V. condition changing apparatus
UEPOPS115	Operate hydroelectric generating plant and auxiliary equipment
UEPOPS116	Operate local H.V. switchgear
UEPOPS117	Operate local L.V. switchgear
UEPOPS118	Operate manual systems
	└ UEPOPS145 Undertake local systems operations

UEPOPS121	Perform plant lubrication
UEPOPS130	Respond to a critical incident
UEPOPS144	Undertake dam safety surveillance
UEPOPS146	Operate and monitor hydro plant/systems
UEPOPS148	Operate and monitor local grid operations control room
UEPOPS150	Operate and monitor multiple facilities from single control room
UEPOPS152	Operate Renewable Energy Generation and Storage systems

Qualification Mapping Information

This qualification supersedes and is equivalent to UEP30122 Certificate III in ESI Generation

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>