



**Australian Government**

# **UEP30122 Certificate III in ESI Generation**

**Release 1**

## UEP30122 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

CPCCCM200 Use explosive power tools

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└ CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

CPCCLDG30 Licence to perform dogging

01

- CPCCLHS30 Licence to operate a personnel and materials hoist  
01
- CPCCLHS30 Licence to operate a materials hoist  
02
- CPCCLRG30 Licence to perform rigging basic level  
01  
└ CPCCLDG3001 Licence to perform dogging
- CPCCLRG30 Licence to perform rigging intermediate level  
02  
└ CPCCLRG3001 Licence to perform rigging basic level
- CPCCLRG40 Licence to perform rigging advanced level  
01  
└ CPCCLRG3002 Licence to perform rigging intermediate level
- CPCCLSF200 Licence to erect, alter and dismantle scaffolding basic level  
1
- CPCCLSF300 Licence to erect, alter and dismantle scaffolding intermediate level  
1  
└ CPCCLSF2001 Licence to erect, alter and dismantle scaffolding basic level
- CPCCLSF400 Licence to erect, alter and dismantle scaffolding advanced level  
1  
└ CPCCLSF3001 Licence to erect, alter and dismantle scaffolding intermediate level
- CPCCWHS20 Apply WHS requirements, policies and procedures in the construction industry  
01
- 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
  - └ MEM16006 Organise and communicate information
- MEM12023 Perform engineering measurements
  - └ MEM13015 Work safely and effectively in manufacturing and engineering
  - └ MEM16006 Organise and communicate information
- MEM12024 Perform computations
  - └ MEM13015 Work safely and effectively in manufacturing and engineering
  - └ MEM16006 Organise and communicate information
- MEM13015 Work safely and effectively in manufacturing and engineering
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  - └ MEM13015 Work safely and effectively in manufacturing and engineering
- 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
- 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

## Qualification Mapping Information

This qualification replaces and is not equivalent to UEP30218 Certificate III in ESI Generation - Operations, and UEP30118 Certificate III in ESI Generation - Systems Operations

## Links

Companion Volume implementation guides are found in VETNet -

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