

## UEP30222 CERTIFICATE III IN ESI GENERATION – SPECIALISATION – SYSTEM OPERATIONS

Entura's system operations course provides participants with a combination of classroom-based training and assessment either by Entura clean energy and water institute or by an accredited third party provider via existing arrangements, on-the-job training, and assessment with the employer, RPL assessment, and/or credit transfer.

The course includes a site specific tailored practical program for the training and assessment of operational competency, transferring the practical and operational knowledge of our experienced operational staff to the trainee operator in a structured and certified program.

The essential knowledge and skills will be provided in either a classroom or e-learn methodology as part of the initial formal component of the overall training. The training can be clustered to provide efficiencies in both training and assessment.

The practical field-based activities will include both training and assessment activities. Trainees will need to be mentored by appropriate senior staff. Where required, their mentor will need to sign off on an activity that has been completed using a workplace competency assessment workbook.

The requirements for granting this qualification will be met when competency is demonstrated and achieved for:

- all 9 core competency standard units, defined in the core competency standard units table
- 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.

Those gaining this qualification from Entura clean energy and water institute will be able to complete work functions such as local operation of plant systems, isolation of plant systems for work, operation of plant systems, routine observation and maintenance of plant and equipment in operation, observation of civil plant and infrastructure observation of safe working practices and environmental procedures.

### COMPLETION REQUIREMENTS

#### CORE COMPETENCY STANDARD UNITS

*All core competency standard units to be achieved*

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

*All core competency standard units to be achieved*

#### ELECTIVE COMPETENCY STANDARD UNITS

##### Group A – Specialist Electives (also in Group C)

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

## Group B – Specialist Electives

UEPOPS001	Analyse single protection device operation	C/RPL
UEPOPS092	Operate and monitor fixed fire protection systems	C/RPL
UEPOPS107	Operate and monitor supervisory, control and data acquisition systems	A

## Group C – Specialist Electives

BSBHRM413	Support the learning and development of teams and individuals	A
BSBLDR301	Support effective workplace relationships	A
BSBOPS301	Maintain business resources	C/RPL
BSBOPS402	Coordinate business operational plans	C/RPL
BSBPEF301	Organise personal work priorities	A
BSBSTR301	Contribute to continuous improvement	C/RPL
BSBSTR401	Promote innovation in a team environment	A
BSBTWK201	Work effectively with others	C/RPL
CPCCCM2007	Use explosive power tools	C/RPL
CPCCLDG3001	Licence to perform dogging	C/RPL
CPCCLHS3001	Licence to operate a personnel and materials hoist	C/RPL
CPCCLHS3002	Licence to operate a materials hoist	C/RPL
CPCCLRG3001	Licence to perform rigging basic level	C/RPL
CPCCLRG3002	Licence to perform rigging intermediate level	C/RPL
CPCCLRG4001	Licence to perform rigging advanced level	C/RPL
CPCCLSF2001	Licence to erect, alter and dismantle scaffolding basic level	C/RPL
CPCCLSF3001	Licence to erect, alter and dismantle scaffolding intermediate level	C/RPL
CPCCLSF4001	Licence to erect, alter and dismantle scaffolding advanced level	C/RPL
CPCCWHS2001	Apply WHS requirements, policies and procedures in the construction industry	C/RPL
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	C/RPL
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	C/RPL
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	C/RPL
MEM09002	Interpret technical drawing └ MEM12023 Perform engineering measurements	C/RPL

	<ul style="list-style-type: none"> <li>MEM12024 Perform computations</li> <li>MEM13015 Work safely and effectively in manufacturing and engineering</li> <li>MEM16006 Organise and communicate information</li> </ul>	
MEM11011	Undertake manual handling <ul style="list-style-type: none"> <li>MEM13015 Work safely and effectively in manufacturing and engineering</li> <li>MEM16006 Organise and communicate information</li> </ul>	C/RPL
MEM12023	Perform engineering measurements <ul style="list-style-type: none"> <li>MEM13015 Work safely and effectively in manufacturing and engineering</li> <li>MEM16006 Organise and communicate information</li> </ul>	C/RPL
MEM12024	Perform computations <ul style="list-style-type: none"> <li>MEM13015 Work safely and effectively in manufacturing and engineering</li> <li>MEM16006 Organise and communicate information</li> </ul>	C/RPL
MEM13015	Work safely and effectively in manufacturing and engineering	C/RPL
MEM16006	Organise and communicate information <ul style="list-style-type: none"> <li>MEM13015 Work safely and effectively in manufacturing and engineering</li> </ul>	C/RPL
NWPCAD008	Monitor and control dam operations	A
NWPCAD009	Monitor and implement dam maintenance	A
NWPCAD012	Route floods through storages	A
RIIHAN309F	Conduct telescopic materials handler operations	C/RPL
RIIMPO304E	Conduct wheel loader operations	C/RPL
RIIMPO308F	Conduct tracked dozer operations	C/RPL
RIIMPO309F	Conduct wheeled dozer operations	C/RPL
RIIMPO318F	Conduct civil construction skid steer loader operations	C/RPL
RIIMPO319E	Conduct backhoe/loader operations	C/RPL
TLILIC0003	Licence to operate a forklift truck	C/RPL
UEECD0019	Fabricate, assemble and dismantle utilities industry components <ul style="list-style-type: none"> <li>UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</li> </ul>	C/RPL
UEOPS001	Analyse single protection device operation	C/RPL
UEOPS005	Clean plant and equipment	A
UEOPS008	Operate and monitor control room site in a multi-function environment	C/RPL
UEOPS009	Conduct minor electrical maintenance	C/RPL
UEOPS010	Conduct minor mechanical maintenance	C/RPL
UEOPS012	Conduct non-routine operational testing	C/RPL
UEOPS018	Conduct water conveyance and control	C/RPL
UEOPS040	Facilitate the use of contingency plans for power generation facilities	C/RPL
UEOPS041	Facilitate workplace communication	A
UEOPS042	Implement dam safety surveillance procedures	C/RPL
UEOPS047	Maintain quality systems within the team	A
UEOPS059	Manage, operate and monitor a gas turbine unit	C/RPL
UEOPS062	Monitor and maintain civil assets	C/RPL

UEPOPS063	Monitor and maintain wind farm civil assets	C/RPL
UEPOPS064	Monitor climatic conditions for renewable energy production	C/RPL
UEPOPS067	Monitor the implementation of under frequency load shedding	C/RPL
UEPOPS068	Operate a hydro generator synchronous condenser pump unit	C/RPL
UEPOPS070	Operate and monitor a boiler unit	C/RPL
UEPOPS072	Operate and monitor a hydro turbine	A
UEPOPS073	Operate and monitor a steam turbine	C/RPL
UEPOPS076	Operate and monitor air conditioning plant and ventilation systems	C/RPL
UEPOPS077	Operate and monitor alkalinity reduction plant	C/RPL
UEPOPS081	Operate and monitor auxiliary steam systems	A
UEPOPS082	Operate and monitor boiler draught system	C/RPL
UEPOPS083	Operate and monitor boiler steam/water cycle	C/RPL
UEPOPS084	Operate and monitor brine concentrator plant	C/RPL
UEPOPS085	Operate and monitor communications systems	A
UEPOPS086	Operate and monitor compressed air systems	C/RPL
UEPOPS087	Operate and monitor compressed gas systems	C/RPL
UEPOPS088	Operate and monitor condenser and auxiliary cooling systems	C/RPL
UEPOPS090	Operate and monitor dual fuel firing plant	C/RPL
UEPOPS092	Operate and monitor fixed fire protection systems	C/RPL
UEPOPS094	Operate and monitor fuel firing plant - coal	C/RPL
UEPOPS095	Operate and monitor fuel firing plant - gas/oil	C/RPL
UEPOPS096	Operate and monitor fuel supply	C/RPL
UEPOPS098	Operate and monitor gas production plant	C/RPL
UEPOPS099	Operate and monitor generator/alternator	A
UEPOPS100	Operate and monitor heat exchangers and cooling systems	C/RPL
UEPOPS101	Operate and monitor HRSG hot gas control system	C/RPL
UEPOPS102	Operate and monitor hydro plant auxiliary systems	A
UEPOPS104	Operate and monitor oil systems	C/RPL
UEPOPS105	Operate and monitor reverse osmosis plant	C/RPL
UEPOPS107	Operate and monitor supervisory control and data acquisition systems	C/RPL
UEPOPS109	Operate and monitor water quality monitoring systems	C/RPL
UEPOPS110	Operate and monitor water systems condensate and feedwater	C/RPL
UEPOPS111	Operate and monitor water treatment plant	C/RPL
UEPOPS112	Operate bulk coal handling plant	C/RPL
UEPOPS113	Operate fabric filter dust collection plant	C/RPL
UEPOPS114	Operate H.V. condition changing apparatus	A
UEPOPS115	Operate hydroelectric generating plant and auxiliary equipment	A
UEPOPS116	Operate local H.V. switchgear	A

UEPOPS117	Operate local L.V. switchgear	A
UEPOPS118	Operate manual systems	A
UEPOPS121	Perform plant lubrication	A
UEPOPS144	Undertake dam safety surveillance	C/RPL
UEPOPS146	Operate and monitor hydro plant/systems	C/RPL
UEPOPS148	Operate and monitor local grid operations control room	C/RPL
UEPOPS150	Operate and monitor multiple facilities from single control room	C/RPL
UEPOPS152	Operate Renewable Energy Generation and Storage systems	C/RPL

**KEY:**

**A** Training and assessment available with Entura clean energy and water institute, accredited third party provider via existing partnership arrangement, or by employer

**C** Credit transfer

**RPL** Recognition of Prior Learning

C / RPL – training not delivered.

Credit transfer is possible with proof of attainment.

Any unit that requires the student to undertake assessment by an assessor accredited by the licence-issuing regulator (e.g., WorkSafe) cannot be delivered by Entura clean energy and water institute and therefore those units are offered by the institute only as a credit transfer

Prerequisites may apply to units.

The elective units provided relate best to students in the hydropower industry.

Please check the full training package available at <https://training.gov.au/> for all options.

RTO 40680

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