



UEP40212 Certificate IV in ESI Generation - Operations

Entura's operations course provides participants with a mixture of classroom theory, as well as practical demonstrations of functioning equipment, to prepare trades-based staff to safely and efficiently operate power generating equipment and associated switchgear, including circuit reading and fault finding.

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. Mentor support by local staff also provides for further customisation of the training 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. This component of the training will be completed in fourteen weeks.

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 assessment events will occur on a regular basis to track activity and to provide support. This component of the training should not take longer than eighteen months and is determined by the availability of mentors, and training and assessment events.

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
- a combination of elective competency standard units to achieve a total weighting of 760 points in accordance with the *Elective competency standard units* table, including any associated prerequisite* units. The prerequisite units can be included in the weighting points.

Those gaining this qualification will be able to complete work function such as the development of operational procedures and systems, manage the start-up and shut-down of generation plant. It also includes the implementation of safe working practices, environmental procedures, management and supervision of others, and the coordination of work activities of individuals and/or teams.



Core competency standard units

All core competency standard units to be achieved

UEENEEE117A	Implement and monitor energy sector OHS policies and procedures
UEENEEE101A	Apply occupational health and safety regulations, codes and practices in the workplace
UEPOPS202B	Apply quality systems to work
UEPOPS252A	Undertake local systems operations
UEPOPS301B	Conduct single energy source isolation procedures for permit to work
UEPOPS337B	Maintain quality systems within the team
UEPOPS342B	Interpret and analyse single operation protection devices
UEPOPS347B	Operate and monitor supervisory, control and data acquisition systems
UEPOPS402B	Conduct multiple energy source isolation procedures for permit to work
UEPOPS403B	Coordinate permit to work system
UEPOPS405B	Operate and monitor AC electrical systems
UEPOPS406B	Operate and monitor DC electrical systems
UEPOPS417B	Monitor and implement environmental plans and procedures
UEPOPS426B	Interpret and analyse multi-operation protection devices
UEPOPS439B	Plan and organise work
UEPOPS440B	Coordinate team activities
UEPOPS454A	Coordinate response to critical incidents

Elective competency standard units

Total weighting of 760 points

UEPOPS349B	Operate H.V. primary switchgear	40
UEPOPS356B	Apply environmental and sustainable energy procedures	20
UEPOPS360A	Operate and monitor a hydro turbine	60
UEPOPS361A	Operate and monitor hydro plant auxiliary systems	60
UEPOPS362A	Operate and monitor generator/ alternator	60
UEPOPS364A	Ensure compliance with occupational health and safety policy and procedures	20
UEPOPS369A	Respond to a critical incident	40
UEPOPS412B	Undertake operations commissioning/decommissioning	30
UEPOPS414B	Perform risk analysis of generation plant	20
UEPOPS428B	Develop H.V. switching programs	40
UEPOPS430B	Control permit to work operations	30
UEPOPS441B	Operate and monitor system equipment	30
UEPOPS444A	Start and run-up a hydro turbine	60
UEPOPS445A	Shut down a hydro turbine	60
UEPOPS446A	Operate and monitor hydro unit control and protection systems	80
UEPOPS452A	Conduct operational checks and carry out corrective action on in-service electrical plant	40
UEPOPS456A	Perform switching to a switching program	30
UEPOPS247B*	Operate and monitor an internal combustion single fuel reciprocating engine	40
UEPOPS248B*	Operate and monitor an internal combustion dual fuel reciprocating engine	30
UEPOPS336A*	Manage, operate and monitor a gas turbine unit	60
TAEDEL301A*	Provide work skill instruction	40
BSBWOR404B*	Develop work priorities	40

* Not provided. Credit transfer is possible with proof of attainment. Prerequisites may apply to the above units.