UEP50212 Diploma of ESI Generation (Operations)

Entura's operations course provides participants with a mixture of classroom theory, as well as practical demonstrations of functioning equipment, including the development of operational procedures and systems, managing 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.

This training program provides participants with a mixture of classroom theory, including management, training, and project management. These subjects are provided by a local RTO and contextualised to the requirements of the client organisation. This component of the training will completed in 10 weeks.

The course includes site visits to working assets for the training and assessment of operational competency, transferring the practical and operational knowledge of experienced operational staff to the trainee operator in a structured and certified program. Mentor support from your organisation also provides for further customisation of the training program.

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

Where required, a WCA document will be developed to assist in providing guidance for training and assessment for on-job activities. The WCA may be used to track training events as the opportunities occur in the workplace.

If the WCA is not suitable, a workplace evidence of task competence completion in the form of a portfolio will need to be gathered to support the skills development of the trainee and the ultimate successful completion of the qualification.

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 910 points in accordance with the *Elective competency standard units*, including any associated prerequisite units. The prerequisite units can be included in the weighting points.

'Core compentency standard units' and 'Elective competency standard units' tables can be found on the next page.

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Nationally Recognised Training

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Core competency standard units

All core competency standard units to be achieved

UEENEEE117A	Implement and monitor energy sector OHS policies and procedures
UEPOPS202B	Apply quality systems to work
UEPOPS301B	Conduct single energy source isolation procedures for permit to work
UEPOPS337B	Maintain quality systems within the team
UEPOPS402B	Conduct multiple energy source isolation procedures for a 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
UEPOPS342B	Interpret and analyse single operation protection devices
UEPOPS426B	Interpret and analyse multi-operation protection devices
UEPOPS439B	Plan and organise work
UEPOPS440B	Coordinate team activities
UEPOPS454A	Coordinate response to critical incidents
UEPOPS457A	Control electrical energy production
UEPOPS501B	Manage occupational health and safety policy and procedures
UEPOPS502B	Manage permit to work system
UEPOPS509B	Manage quality control procedures
UEPOPS513B	Manage operational crisis to maintain/ restore power system integrity
UEENEEE101A	Apply occupational health and safety regulations, codes and practices in the workplace

Elective competency standard units

Total weighting of 910 points required

UEPOPS510B	Monitor power generation plant reliability	60
UEPOPS515B	Coordinate power generation	40
UEPOPS414B	Perform risk analysis of generation plant	20
UEPOPS441B	Operate and monitor system equipment	30
UEPOPS508B	Manage commissioning / decommissioning	80
UEPOPS511B	Tune process plant and equipment	60
UEPOPS369A	Respond to a critical incident	40
UEPOPS347B	Operate and monitor supervisory, control and data acquisition systems	40
UEPOPS349B	Operate H.V. primary switchgear	40
UEPOPS360A	Operate and monitor a hydro turbine	60
UEPOPS361A	Operate and monitor hydro plant auxiliary systems	60
UEPOPS362A	Operate and monitor generator/ alternator	60
UEPOPS412B	Undertake operations commissioning/ decommissioning	30
UEPOPS 428B	Develop H.V. switching programs	40
UEPOPS430B	Control permit to work operations	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
BSBLED501A*	Develop a workplace learning environment	60
BSBWOR501B*	Manage personal work priorities and professional development	60
BSBWOR502B*	Ensure team effectiveness	60
UEPOPS507B*	Conduct project management	60
BSBMGT515A*	Manage operational plan	60

* Not provided. Credit transfer is possible with proof of attainment.

Prerequisites may apply to the above units.