

UEP40218 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.

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.

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 740 points in accordance with the elective competency standard units table, including any associated prerequisite units.

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

UEECD0024	Implement and monitor energy sector WHS policies and procedures
UEECD0007	Apply work health and safety regulations, codes and practices in the workplace
UEPOPS202	Apply quality systems to work
UEPOPS252	Undertake local systems operations
UEPOPS301	Conduct single energy source isolation procedures for permit to work
UEPOPS337	Maintain quality systems within the team
UEPOPS342	Analyse single protection device operation
UEPOPS347	Operate and monitor supervisory, control and data acquisition systems
UEPOPS402	Conduct multiple energy source isolation procedures for permit to work
UEPOPS403	Coordinate permit to work system
UEPOPS405	Operate and monitor A.C. electrical systems
UEPOPS406	Operate and monitor D.C. electrical systems
UEPOPS417	Monitor and implement environmental site plans and procedures
UEPOPS426	Interpret and analyse multi-operation protection devices
UEPOPS439	Plan and organise work
UEPOPS440	Coordinate team activities
UEPOPS454	Coordinate response to critical incidents

ELECTIVE COMPETENCY STANDARD UNITS

Total weighting of 740 points

Group A – minimum 0 and maximum 220 points

TAEDEL301*	Provide work skill instruction	40
BSBPER404*	Develop personal work priorities	40

Group B – minimum 0 and maximum 620 points

UEPOPS203	Operate and monitor communications system	20
UEPOPS326	Operate and monitor oil systems	30
UEPOPS327	Monitor and maintain civil assets	30
UEPOPS328	Undertake dam safety surveillance	30
UEPOPS334	Operate and monitor a wind generator	60
UEPOPS336*	Manage, operate and monitor a gas turbine unit	60
UEPOPS343	Operate hydro-electric generating plant and auxiliary equipment	60
UEPOPS344	Conduct water conveyance and control	30
UEPOPS346	Conduct non-routine operational testing	60
UEPOPS349	Operate local H.V. switchgear	40
UEPOPS351	Operate H.V. condition changing apparatus	60
UEPOPS352	Conduct operational checks on in-service mechanical plant	40
UEPOPS356	Apply environmental and sustainable energy procedures	20
UEPOPS357	Operate local L.V. switchgear	40
UEPOPS358	Monitor and maintain wind farm civil assets	40
UEPOPS360	Operate and monitor a hydro turbine	60
UEPOPS361	Operate and monitor hydro plant auxiliary systems	60
UEPOPS362	Operate and monitor generator/alternator	60
UEPOPS364	Ensure compliance with Work, Health and Safety policy and procedures	20
UEPOPS369	Respond to a critical incident	40
UEPOPS371	Carry out operational checks on in-service electrical plant	40

Group C – Minimum 140 and maximum 740 points

UEPOPS412	Undertake commissioning and decommissioning	30
UEPOPS414	Perform risk analysis of generation plant	20
UEPOPS428	Develop H.V. switching programs	40
UEPOPS430	Control permit to work operations	30
UEPOPS437	Manage system restart	40
UEPOPS441	Operate and monitor system equipment	30
UEPOPS443	Coordinate wind farm operations	40
UEPOPS444	Start and run-up a hydro turbine	60
UEPOPS445	Shut down a hydro turbine	60
UEPOPS446	Operate and monitor hydro unit control and protection systems	80
UEPOPS447	Coordinate photovoltaic solar power plant operations	60
UEPOPS452	Conduct operational checks and carry out corrective action on in-service electrical plant	40
UEPOPS456	Perform switching to a switching program	30
UEPOPL001*	Licence to operate a steam turbine	60
UEPOPL002*	Licence to operate a reciprocating steam engine	60

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

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.