

UEP Electricity Supply Industry - Generation Sector Training Package Release 3 - Credit Arrangements

MODIFICATION HISTORY

Release Number	Release Date	Comments
3.0	TBA	This is the third release of this Training Package. 1 new Qualification: - UEP30322 Certificate III in ESI Generation 3 New Skill Sets: - UEPSS00013 Co-ordinate Real-Time Offshore Operations Skill Set - UEPSS00014 Managing Network Communications Skill Set - UEPSS00015 Managing Site Outages Skill Set 5 New Units of Competency: - UEPOPS008 Operate and monitor control room site in a multi-control room environment - UEPOPS146 Operate and monitor hydro plant systems - UEPOPS148 Co-ordinate grid operations control centre - UEPOPS150 Operate and monitor multiple facilities from single control room - UEPOPS152 Operate Renewable Wind, Solar and Hydro systems
2.0	22 February 2022	- This is the second release of this Training Package. 11 Revised Qualifications: - UEP20122 Certificate II in ESI Generation - Operations Support - UEP20222 Certificate II in Remote Area Essential Service - UEP30122 Certificate III in ESI Generation - UEP40122 Certificate IV in ESI Generation - UEP40322 Certificate IV in ESI Generation Maintenance - Electrical Electronics - UEP40422 Certificate IV in ESI Generation Maintenance (Fabrication) - UEP40522 Certificate IV in ESI Generation Maintenance (Mechanical) - UEP40622 Certificate IV in Wind Power Generation - UEP50122 Diploma of ESI Generation - UEP50322 Diploma of ESI Generation (Maintenance) - UEP50422 Diploma of ESI Generation Maintenance - Electrical Electronic 4 Revised Skill Sets: - UEPSS00007 High Voltage Operation - H V switching programs - OPUEPSS00009 High Risk Licensing - Licence to operate a reciprocating steam engine - UEPSS00010 High Risk Licensing - Licence to operate a steam turbine - UEPSS00011 High Voltage Operation - Development and coordination of H V switching programs 159 Revised Units of Competency

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		• UEPMNT001 Carry out routine work activities in an electricity supply industry generation environment • UEPMNT002 Carry out routine work activities in an ESI large scale wind generation environment • UEPMNT003 Coordinate maintenance on a wind farm • UEPMNT004 Diagnose and repair faults in large scale wind turbines • UEPMNT005 Diagnose and repair faults in wind turbine control systems • UEPMNT006 Diagnose and repair faults in wind turbine electrical systems • UEPMNT007 Diagnose and repair mechanical systems faults in wind turbines • UEPMNT008 Maintain and monitor wind farm civil assets • UEPMNT009 Maintain large scale wind turbines • UEPMNT010 Maintain wind turbine control systems • UEPMNT011 Maintain wind turbine electrical systems • UEPMNT012 Maintain wind turbine mechanical systems • UEPMNT013 Monitor climatic conditions for renewable electricity generation • UEPMNT014 Test and commission wind turbines • UEPOPL003 Licence to operate a reciprocating steam engine • UEPOPL004 Licence to operate a steam turbine • UEPOPS001 Analyse single protection device operation • UEPOPS002 Apply environmental and sustainable energy procedures • UEPOPS003 Apply quality systems to work • UEPOPS004 Carry out operational checks on in-service electrical plant • UEPOPS005 Clean plant and equipment • UEPOPS006 Collect and analyse hydrological and meteorological data • UEPOPS007 Conduct chemical batching operations • UEPOPS009 Conduct minor electrical maintenance • UEPOPS010 Conduct minor mechanical maintenance • UEPOPS011 Conduct multiple energy source isolation procedures for permit to work • UEPOPS012 Conduct non-routine operational testing • UEPOPS013 Conduct operational checks and carry out corrective action on in-service electrical plant • UEPOPS014 Conduct operational checks on in-service mechanical plant • UEPOPS015 Conduct project management • UEPOPS016 Conduct routine wind turbine maintenance • UEPOPS017 Conduct single energy source isolation procedures for permit to work • UEPOPS018 Conduct water conveyance and control • UEPOPS019 Control electrical energy production • UEPOPS020 Control hydro generation pumping

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		• UEPOPS021 Control permit to work operations • UEPOPS022 Coordinate and direct switching program • UEPOPS023 Coordinate electrical energy production • UEPOPS024 Coordinate first response team operation • UEPOPS025 Coordinate local H V networks • UEPOPS026 Coordinate network system • UEPOPS027 Coordinate operational strategies for power production • UEPOPS028 Coordinate permit to work system • UEPOPS029 Coordinate photovoltaic solar power plant operations • UEPOPS030 Coordinate power generation • UEPOPS031 Coordinate response to critical incidents • UEPOPS032 Coordinate team activities • UEPOPS033 Coordinate the use of contingency plans • UEPOPS034 Coordinate wind farm operations • UEPOPS035 Coordinate workplace communication • UEPOPS036 Develop H V switching programs • UEPOPS037 Ensure compliance with Work, Health and Safety policy and procedures • UEPOPS038 Evaluate cost estimations and initiate appropriate solutions • UEPOPS039 Evaluate scheduling of generation plant • UEPOPS040 Facilitate the use of contingency plans for power generation facilities • UEPOPS041 Facilitate workplace communication • UEPOPS042 Implement dam safety surveillance procedures • UEPOPS043 Interpret and analyse multi-operation protection devices • UEPOPS044 Liaise with stakeholders • UEPOPS045 Maintain and utilise records • UEPOPS046 Maintain battery banks and cells • UEPOPS047 Maintain quality systems within the team • UEPOPS048 Manage commissioning and decommissioning • UEPOPS049 Manage critical incidents • UEPOPS050 Manage environmental management systems • UEPOPS051 Manage first response team • UEPOPS052 Manage high voltage network system • UEPOPS053 Manage operational crisis to maintain or restore power system integrity • UEPOPS054 Manage operational strategies for power production • UEPOPS055 Manage permit to work system • UEPOPS056 Manage quality control procedures • UEPOPS057 Manage system restart • UEPOPS058 Manage Work, Health and Safety policy and procedures • UEPOPS059 Manage, operate and monitor a gas turbine unit

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		• UEPOPS060 Monitor and coordinate the operation of a combined cycle gas turbine unit • UEPOPS061 Monitor and implement environmental site plans and procedures • UEPOPS062 Monitor and maintain civil assets • UEPOPS063 Monitor and maintain wind farm civil assets • UEPOPS064 Monitor climatic conditions for renewable energy production • UEPOPS065 Monitor implementation of quality control for production and maintenance • UEPOPS066 Monitor power generation plant reliability • UEPOPS067 Monitor the implementation of under frequency load shedding • UEPOPS068 Operate a hydro generator synchronous condenser pump unit • UEPOPS069 Operate air conditioning plant • UEPOPS070 Operate and monitor a boiler unit • UEPOPS071 Operate and monitor a heat recovery steam generator unit • UEPOPS072 Operate and monitor a hydro turbine • UEPOPS073 Operate and monitor a steam turbine • UEPOPS075 Operate and monitor A C electrical systems • UEPOPS076 Operate and monitor air conditioning plant and ventilation systems • UEPOPS077 Operate and monitor alkalinity reduction plant • UEPOPS078 Operate and monitor an internal combustion dual fuel reciprocating engine • UEPOPS079 Operate and monitor an internal combustion single fuel reciprocating engine • UEPOPS080 Operate and monitor ash and dust disposal 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 • UEPOPS089 Operate and monitor D C electrical systems • UEPOPS090 Operate and monitor dual fuel firing plant • UEPOPS091 Operate and monitor dust collection plant • UEPOPS092 Operate and monitor fixed fire protection systems • UEPOPS093 Operate and monitor flue gas (NOx) mitigation systems • UEPOPS094 Operate and monitor fuel firing plant (coal)

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		• UEPOPS095 Operate and monitor fuel firing plant (gas or oil) • UEPOPS096 Operate and monitor fuel supply • UEPOPS097 Operate and monitor fuel supply (coal) • 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 • UEPOPS103 Operate and monitor hydro unit control and protection systems • UEPOPS104 Operate and monitor oil systems • UEPOPS105 Operate and monitor reverse osmosis plant • UEPOPS106 Operate and monitor site services water systems • UEPOPS107 Operate and monitor supervisory, control and data acquisition systems • UEPOPS108 Operate and monitor system equipment • 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 • UEPOPS119 Operate waste and contaminated water plant • UEPOPS120 Undertake commissioning and decommissioning • UEPOPS121 Perform plant lubrication • UEPOPS122 Perform process plant inspections • UEPOPS123 Perform risk analysis of generation plant • UEPOPS124 Perform switching to a switching program • UEPOPS125 Perform tool store duties • UEPOPS126 Plan a scheduled outage • UEPOPS127 Plan and organise work • UEPOPS128 Produce maintenance plans for generation production plant • UEPOPS129 Produce maintenance strategies for generation production plant • UEPOPS130 Respond to a critical incident • UEPOPS131 Run up a steam turbine

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		• UEPOPS132 Schedule generation • UEPOPS133 Shut down a boiler unit • UEPOPS134 Shut down a gas turbine • UEPOPS135 Shut down a heat recovery steam generator unit • UEPOPS136 Shut down a hydro turbine • UEPOPS137 Shut down a steam turbine • UEPOPS138 Start and run up gas turbine • UEPOPS139 Start and run-up a hydro turbine • UEPOPS140 Start up a boiler unit • UEPOPS141 Start up a heat recovery steam generator unit • UEPOPS142 Transport plant and equipment • UEPOPS143 Tune process plant and equipment • UEPOPS144 Undertake dam safety surveillance
		UEPOPS145 Undertake local systems operations
1.0	31 October 2018	This is the first release of this Training Package. Supersedes UEP12 - Electricity Supply Industry - Generation Sector Training Package Release 2.1.

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CREDIT ARRANGEMENTS FOR TLI TRANSPORT AND LOGISTICS TRAINING PACKAGE Specifies existing credit arrangements between Training Package qualifications and Higher Education qualifications in accordance with the AQF.		
QUALIFICATION CODE	QUALIFICATION TITLE	CREDIT ARRANGEMENT DETAILS
UEP20122	Certificate II in ESI Generation - Operations Support	At the time of endorsement of this Training Package no national credit arrangements exist.
UEP20222	Certificate II in Remote Area Essential Service	
UEP30122	Certificate III in ESI Generation	
UEP30322	Certificate III in ESI Generation	
UEP40122	Certificate IV in ESI Generation	
UEP40322	Certificate IV in ESI Generation Maintenance - Electrical Electronics	
UEP40422	Certificate IV in ESI Generation Maintenance (Fabrication)	
UEP40522	Certificate IV in ESI Generation Maintenance (Mechanical)	
UEP40622	Certificate IV in Wind Power Generation	Universities have recognition of prior learning pathways available into undergraduate programs. Graduates who have completed a designated AQF5 or above TLI Transport and Logistics Training Package qualification for which an articulation agreement exists between the registered training organisation and the university can be granted an agreed amount of credit upon application.
UEP50122	Diploma of ESI Generation	
UEP50322	Diploma of ESI Generation (Maintenance)	
UEP50422	Diploma of ESI Generation Maintenance - Electrical Electronic	
LINKS	Companion Volume Implementation Guides are found in VETNet	