

Advanced Diploma of ESI - Power Systems [System Operations Stream]
 Interpretation of the legend items in the Progress Report

Item	Code
Responded to a technical enquiry/request in accordance with procedures and timely manner	EL0511
Dealing with an unplanned event	EL0512
Confirmed "safe working zone" for safe work and access near live elec and mechanical app	EL0521
Applied knowledge of relevant acts/regulations/codes of practice/guidelines etc.	EL0522
Identified established (Enterprise) procedures and processes	EL0523
Confirmed principles of electricity, the three phase power system, electric shock and resuscitation, power system	EL0524
Recognized aerial voltage systems	EL0525
Identified LV Networks	EL0526
Identified HV Networks	EL0527
Procedures in the event of an incident	EL0528
Events constituting an incident	EL0529
Procedures for responding to incidents	EL05210
Hazard and risk assessment general principles/procedures	EL05211
Principles for conduct work-site hazard assess checks/ basic safety principles/hazard control measures	EL05212
Purpose and use of work permits and/or auth permits	EL05213
Sustainable Energy principles/practices	EL05214
Possible affects of weather conditions on working near elec app as a non-elec worker	EL05215
Knowledge of the industry critical codes e.g. storm code emergencies	EL05216
Identified key industry equipment	EL05217
Recognized normal/abnormal industry situations	EL05218
Wrote switching programs: transformer (LV winding and fixed tap)	SO0611
Wrote switching programs: LV busbars	SO0612
Wrote switching programs: for LV isolators	SO0613
Wrote switching programs: LV Switchgear	SO0614
Wrote switching programs: Phasing/phase rotation	SO0615
Wrote switching programs: commissioning LV apparatus item	SO0616
Wrote switching programs: Planned interruption to LV customer/s	SO0617

Wrote switching programs: Installation of a mobile generators	SO0618
Prepare/write/check switch sheets to manage load	SO0619
Prepare/write/check switch sheets to manage volt	SO06110
Prepare/write/check switch sheets to min losses	SO06111
Prepare/write/check switch sheets to max netw reliability	SO06112
Prepare switch instruct to isolate/test/earth enterprise transformers (LV windings)	SO0621
Prepare switch instruct to isolate/test/earth enterprise LV busbars	SO0622
Prepare switch instruct to isolate/test/earth enterprise LV feeders	SO0623
Prepare switch instruct to isolate/test/earth enterprise LV circuit breakers/isolators/switches	SO0624
Checked above switching instructions	SO0625
Coordinated above switching instructions	SO0626
Calculated apparatus loading	SO0627
Applied and administrated SCADA or enterprise network control system	SO0628
Analysed and diagnosed system failure	SO0629
Dealing with an unplanned event	SO06210
Wrote switching programs: transformer (HV winding and fixed tap)	SO0711
Wrote switching programs: transformer (HV winding and on-load tap changer)	SO0712
Wrote switching programs: HV busbars	SO0713
Wrote switching programs: for HV isolators	SO0714
Wrote switching programs: HV Switchgear	SO0715
Wrote switching programs: Phasing/phase rotation	SO0716
Wrote switching programs: commissioning HV apparatus item	SO0717
Wrote switching programs: Planned interruption to HV customer/s	SO0718
Wrote switching programs: Installation of a mobile generators	SO0719
Wrote switching programs: Placing distribution radial feeders in parallel (special considerations)	SO07110
Prepare/write/check switch sheets to manage load	SO07111
Prepare/write/check switch sheets to manage volt	SO07112
Prepare/write/check switch sheets to min losses	SO07113
Prepare/write/check switch sheets to max netw reliability	SO07114
Prepare switch instruct to isolate/test/earth enterprise transformers	SO0721
Prepare switch instruct to isolate/test/earth enterprise busbars	SO0722
Prepare switch instruct to isolate/test/earth enterprise feeders	SO0723
Prepare switch instruct to isolate/test/earth enterprise circuit breakers/isolators/switches	SO0724
Checked above switching instructions	SO0725

Coordinated above switching instructions	SO0726
Calculated apparatus loading	SO0727
Dealing with an unplanned event	SO0728
Coordinated sys manipulations: HV sub transm and distr netw	SO1011
Coordinated sys manipulations: HV sub transm and distr netw (loading on equipment)	SO1012
Coordinated sys manipulations: Transformers (HV windings)	SO1013
Coordinated sys manipulations: HV busbars	SO1014
Coordinated sys manipulations: HV isolators	SO1015
Coordinated sys manipulations: HV switchgear	SO1016
Monitor/manage switch: load	SO1017
Monitor/manage switch: voltage	SO1018
Monitor/manage switch: Min loss	SO1019
Monitor/manage switch: Max system reliability	SO10110
Monitor/manage switch: safe netw access for maintenance	SO10111
Monitor/manage switch: safe netw access for construction	SO10112
Monitor/manage switch: Validating fault reports arising from system disturbances	SO10113
Wrote switching instructions	SO1021
Checked switching instructions	SO1022
Coordinated switching instructions	SO1023
Calculated apparatus loading	SO1024
Prepared/auth HV sub transm and distr switch program	SO1025
Monitored switch progress	SO1026
Monitored status of access permits/authorities on HV netw equip	SO1027
Ensured netw app operates within design and regulatory requirements on a real time basis	SO1028
Dispatched/communicated with field crews to respond/rectify system abnormalities	SO1029
Applied/admin SCADA	SO10210
Analysed/diagnosed system failures	SO10211
Calculated/analysed paralleling conditions on interconnect HV sys	SO10212
Dealing with an unplanned event	SO10213
Evidence of planned switching programs involving the operation and monitoring of system equipment via SCADA	SO1511
Evidence of unplanned switching events involving the operation and monitoring of system equipment via SCADA	SO1512
Extract data used in the analysis of network loading trends	SO1513
Dealing with an unplanned event	SO1521
Identified discrete/interdependent relay operations by interpreting available alarms and event data.	SO1811

Analysed/ Diagnosed system failures	SO1812
Evaluated response to discrete/interdependent relay operations	SO1813
Described control and alarms (discrete/interdependent protection systems)	SO1814
Dealing with an unplanned event	SO1821
Dispatched energy to the electricity market	SO1911
Responded to electricity market fluctuations/demands	SO1912
Manipulated the system to ensure reliable operation in response to electricity market requirements	SO1913
Dealing with an unplanned event	SO1914
Applied principals and objectives of the electricity market	SO1921
Applied the role of ancillary services in the operation of the electricity market	SO1922
Applied service provider obligations in the electricity market	SO1923
Applied Connection and access requirements to the electricity market	SO1924
Analysed pricing concepts	SO1925
Applied contractual obligations	SO1926
Applied scheduling of generation assets	SO1927
Identified netw fault by interpreting available alarms and event data.	SO0211
Developed plan to enable management of a netw fault	SO0212
Implemented plans to restore network after a fault.	SO0213
Liaised with operating authorities/field crews to restore the network after a fault.	SO0214
Documented/de-briefed actions upon network restoration	SO0215
Dealing with an unplanned event	SO0221
Sys manipulations: HV sub transm and distr netw	SO0511
Sys manipulations: Transm netw (to control loading on equipment)	SO0512
Sys manipulations: Transformers (HV windings)	SO0513
Sys manipulations: HV busbars	SO0514
Sys manipulations: HV isolators	SO0515
Sys manipulations: HV switchgear	SO0516
Prepare/write/check switch sheets to manage load	SO0517
Prepare/write/check switch sheets to manage volt	SO0518
Prepare/write/check switch sheets to min losses	SO0519
Prepare/write/check switch sheets to max netw reliability	SO05110
Prepare/write/check switch sheets to allow safe netw access for maintenance	SO05111
Prepare/write/check switch sheets to allow safe netw access for construction	SO05112
Prepare/write/check switch sheets to validate fault reports arising from system disturbances	SO05113

Wrote switching instructions	SO0521
Analysed/reviewed switching instructions	SO0522
Managed multiple switching instructions	SO0523
Coordinated the access permits/authorities status on HV netw equip relevant to the scope	SO0524
Ensured netw app operates within design/regulatory requirements on a real time basis	SO0525
Calculated line loading	SO0526
Prepared/Auth HV distr switch programs	SO0527
Demonstrated application/administration of SCADA or equivalent.	SO0528
Analysed/diagnosis/Reported system failure	SO0529
Calculated/analysed of paralleling conditions on the interconnected HV system	SO05210
Dealing with an unplanned event	SO05211
Identified complex relay operations by interpreting available alarms and event data.	SO2011
Analysed/diagnosed system failures	SO2012
Evaluated response to complex relay operations	SO2013
Described control and alarms associated with complex protection systems	SO2014
Dealing with an unplanned event	SO2021
Maximise system reliability	SO2111
Manage voltage	SO2112
Minimise loss	SO2113
Control load	SO2114
Dispatch of Static/Synchronous VAR compensation	SO2115
Dispatch of generation	SO2116
Transmission line conditions on the interconnected EHV system.	SO2121
Distr and Subtransm line conditions on an interconnected system	SO2122
Dealing with an unplanned event	SO2123