

COMPETENCY PROFILE

Technician - BOP - Wind





Position Name: Technician OP Wind

Position Details

Job Title	Technician - BOP - Wind	Grade/Level	Technician - BOP
Business	Wind O M	Function	Wind
Location			

Competencies Required

Technica

Competencies	Required Level	Criticality
Transformer / IDT	Level 1-Novice	Critical C
Sub Station / Switchyard	Level 1-Novice	Critical C
Cable Management	Level 1-Novice	Critical C
Wind Power Plant Technology	Level 1-Novice	Important I
Control System Architecture and SCADA	Level 1-Novice	Important I
Weather Monitoring System	Level 1-Novice	Important I
Plant Performance	Level 1-Novice	Important I
Transmission Lines and Grid	Level 1-Novice	Important I

Cross Functional

Competencies	Required Level	Criticality
Safety	Level 2-Practitioner	Critical C
ISO Standards	Level 1-Novice	Important I
ESG Initiatives	Level 1-Novice	Important I
Knowledge of SAP PM MM Module	Level 1-Novice	Important I



Transformer / IDT

Level 1-Novice

Criticality:Critical C

- Transformer specifications circuit diagrams SLD GTP Data
- Transformer testing Faults errors and rectification as per OEM guidelines
- Codes standards for all the transformers in the plant
- Preventive predictive breakdown maintenance of the transformers
- Troubleshooting of the transformers relay coordination fault identification
- Physical inspection of the transformers as per the check list/SOP
- Fire Alarm detection and protection system of the transformers
- NIFPS system operations maintenance troubleshooting



Sub Station / Switchyard

Level 1-Novice

Criticality:Critical C

- Sub Station and Switchyard Equipment's HT/LT Panels, CRP Panels, Battery system, Aux. Supply system specification, circuit diagrams, SLD
- Errors testing operations applicable codes standards
- Relay settings configuration coordination and calibration
- Parameters / Alarm monitoring of applicable relays
- SS/ Switchyard components testing
 Faults errors identification and rectification / SOP
- Isolation and normalization of feeders / sections by following the SOP/PTW system
- Safety PPE/Tools applicable for such operations
- Preventive predictive and breakdown maintenance
- Physical inspection of the SS/ Switchyard as per the check list/SOP
- Fire Alarm, detection and protection system of the SS/ Switchyard
- Earthing system



Cable Management

Level 1-Novice

Criticality:Critical C

- Power cable types specs, control communication OPGW
- Cable laying and testing
- Methods of Cable identifying / tagging systems accordance to SLD
- Cable jointing termination for Power Control and OFC cables
- Error codes and error / fault clearing methods
- Cable insulation and earthing
- Preventive predictive and breakdown maintenance of cables
- Maintenance of cable trays and cable routes route marker



Wind Power Plant Technology

Level 1-Novice

Criticality:Important I

- Understanding SLD of the Wind Power Plant
- Components of Wind Power Plant
- Definition/Name Plate details of all the components
- Synergy integration of the components
- Knowledge of Lightning protection system



Control System Architecture and SCADA

Level 1-Novice

Criticality:Important I

- SCADA architecture and components
- RTUs, PPC, PLCs, PCs, HMIs, servers, switches, firewall, Gateway, FOTE communication, CITET config.
- Testing, operations, rectification, monitoring these components and Hardware
- Data monitoring, transmission to the control centres ensuring the 24X7 availability at SCADA.
- Protection and escalation of possible cyber-attacks and breaches, prepared with emergency response
- Preventive checks as per OEM and knowledge of trouble shooting, bugs and issues
- Connectivity RF/Broadband/ILL/MPLS/PLCC trouble shooting, cable slicing



Weather Monitoring System

Level 1-Novice

Criticality:Important I

- Weather Factors influencing the Wind Plant
- Geographic Location- Latitude Longitude Time Regional Weather and Microclimatic factors
- WMS type configurations troubleshooting IOT Apps
- Meteo Station and weather forecasting systems
- Sensors and data logging system



Plant Performance

Level 1-Novice

Criticality:Important I

- Data Visualisation Parameters to be monitored for Performance
- Data Visualisation Monitoring the parameters from SCADA systems
- Data Visualisation Monitoring systems Power BI DSM F S
- Data Analytics CUF Bridge PR Bridge Loss diagram repeated errors Loss reduction report generation and transmission loss Plant availability Grid availability



Transmission Lines and Grid

Level 1-Novice

Criticality:Important I

- Grid operation and coordination
- Compliance with Grid codes
- Coordination with SLDC/RLDC SECI
- Transmission Line patrolling
- Troubleshooting methods in Transmission systems
- Coordination for Line Shutdowns
- Type of insulators condition monitoring relays operations
- Insulators rectification/replacement procedures



Safety

Level 2-Practitioner

Criticality:Critical C

- HIRA / JSA preparation as per the Company Safety Policy OEM Guidelines
- Safety Guidelines awareness applicable for Power Plant Wind
- Wind Disaster / Emergency Management Plan Knowledge preparation
- Wind Fire Detection Control Process thoroughness Fire Fighting System knowledge
- Wind Encourage drive safety culture for all the team members
- Mock drills
- PTW Systems
- Wind PPE / safety items / equipment's identification applicability
- Crane operations procedure



ISO Standards
Level 1-Novice
Criticality:Important I
Level Indicators
Awareness adherence to define process



Renewables
ESG Initiatives
Level 1-Novice
Criticality:Important I
Officially important 1
Level Indicators
Ecvel maroators
Awareness adherence to define process



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