| | POV | VER ENGINEERING COMPETENCY F | RAMEWORK | | | |
|---|--|---|--------------------------------|--|--|--|
| | SKILLS MAP - Senior As | sociate Engineer / Associate Enginee | er (Energy Management Systems) | | | |
| Sector Track | Power Engineering in the Public Service Monitoring & Control | | | | | |
| Occupation | Assistant Electrical Engineer | | | | | |
| Job Role | Senior Associate Engineer / Associate Engineer (Energy Management Systems) The Deputy Director / Senior Specialist / Spec | | | | | |
| ob Role Description | The Deputy Director / Senior Specialist / Specialist (Energy Management Systems) is responsible for endorsing the standards for Information Technology (Operational Technology (OT) systems. He/She leads failure analysis for Energy Management Systems and provides expert advice to ensure prompt resolute the leads the formulation of cybersecurity initiatives and plans, advises on incentive implementation and management of department security initiatives, and advises on resolution of cybersecurity threats, system abnormalities and informatic issues. He leverages data analytics to enhance strategic decision-making. He also advises on practical implications of decarbonisation, decentralisation are initiatives. He possesses good leadership and interpersonal skills. Furthermore, he is a strategic thinker with a global mindset who actively contributes to national energolicies, strategies and frameworks to balance economic competitiveness, environmental sustainability, energy security. | | | | | |
| | Critical Work Functions | Key | Tasks | Performance Expectations (For legislated / regulated occupations) | | |
| | | Assist in maintaining information reclinology (11) and Operational | | In accordance with: - Electricity Act including subsidiary legislations - Energy Market Authority of Singapore Act - International Electrotechnical Commission (IEC) Standards - International Organization for Standardisation (ISO) Standards - Singapore Standards for Electrical and Power sector - Workplace Safety and Health (WSH) Act * Performance Expectations are non-exhaustive and subject to prevailing regulations and industry standards | | |
| Critical Work Functions and Key Tasks / Performance Expectations | Oversee energy management systems | Technology (OT) systems to support the needs of the division Perform first level technical support for Energy Management Systems | | | | |
| | | Provide technical and operational support to System Control and Gas System Supervision departments | | | | |
| | | Perform checks on Sectorial Detection & Early Warning System (SDEWS) | | | | |
| | | Carry out the construction, modification and verification of system schematic diagrams and databases | | | | |
| | Manage cybersecurity risks | Support implementation, configuration and administration of security software and tools for OT systems Assist in monitoring, detecting and reporting cybersecurity threats, system | | | | |
| | | abnormalities and information security issues | | | | |
| | | Assist in Incident Response (IR) reporting and support when analysis confirms actionable incident | | | | |
| | | Coordinate annual technical security reviews and ISO 27001 audits with internal/external audit consultants | | | | |
| | | Monitor and track cybersecurity risks mitigation and exceptions | | | | |
| | Contribute to decarbonisation, decentralisation and digitalisation initiatives | Keep abreast of national energy and power policies, strategies and frameworks | | | | |
| | | Gather data on latest trends in electrical and power technologies | | | | |
| | | Gather data for green initiatives using clean and renewable energy | | | | |
| | | Record data for operational analytics | | | | |
| Skills & Competencies | Technical Skills and Competencies Critical | | Core Skills | | | |
| | Business Intelligence and Data Analytics | Level 2 | Collaboration | Basic | | |
| | Continuous Improvement Management | Level 3 | Problem Solving | Basic | | |
| | Contract and Contractor Management | Level 2 | Sense-Making | Basic | | |
| | Cyber Incident Management | Level 3 | Communication | Basic | | |
| | Cyber Risk Detection and Monitoring | Level 2 | Digital Fluency | Basic | | |
| | Cybersecurity Framework Application | Level 2 | Customer Orientation | Basic | | |
| | Emergency Response and Crisis Management | Level 3 | Adaptability | Basic | | |
| | Engineering Problem Solving | Level 3 | Influence | Basic | | |
| | Environmental Sustainability Management | Level 3 | Self Management | Basic | | |
| | Inter-agency Collaboration | Level 3 | | | | |
| | Internet of Things (IoT) Application | Level 3 | | | | |
| | Modelling, Simulation and Visualisation | Level 2 | | | | |
| | Operational Technology Security Audit | Level 4 | | | | |
| | Power Engineering Management | Level 3 | | | | |

| | Power Strategy Planning and Governance | Level 3 | |
|-------------------|---|---------|--|
| | Regulatory Advisory | Level 3 | |
| | Regulatory Compliance and Risk Management | Level 3 | |
| | Stakeholder Management | Level 3 | |
| | Technology and Systems Application | Level 3 | |
| Programme Listing | For a list of training programmes available for the Power Engineers in the Public Service, please refer to separate document on training courses. | | |

The information contained in this document serves as a guide.