

**POWER ENGINEERING COMPETENCY FRAMEWORK FOR POWER ENGINEERING PROFESSIONALS IN PUBLIC SERVICE
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Energy Operations Management					
TSC Title	Electricity Network Incident Management					
TSC Description	Investigate and recommend solutions to resolve electricity network incidents					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	<Insert TSC Code>	<Insert TSC Code>	<Insert TSC Code>	<Insert TSC Code>	<Insert TSC Code>	
	Oversee procedures for restoring low voltage (LV) outages	Monitor electricity network abnormalities and report incidents for further investigation	Investigate low voltage (LV) electricity network incidents and apply incident response management procedures	Determine root causes of high voltage (HV) and extra high voltage (EHV) network incidents and recommend mitigation solutions	Develop electricity network incident management strategies and procedures, and resolve large-scale, complex network incidents	
Knowledge	<ul style="list-style-type: none"> Tools, equipment and materials needed to restore LV outages Methods to identify outage locations Methods to determine extent of outages Organisational test methods and protocols Fault identification methods 	<ul style="list-style-type: none"> Network abnormalities detection and reporting protocols Types of network incidents Categorisation guidelines for network incidents Impact of network incidents on the network and users Evidence gathering techniques and procedures 	<ul style="list-style-type: none"> Electricity Act and regulations Prioritisation criteria for network incidents Tools and processes used to investigate network incidents Tools and processes used to remedy network incidents Root cause analysis procedures Implications of network incidents on supply and security 	<ul style="list-style-type: none"> Electricity Act and regulations Mechanics of network incident alert triggers Network incident remediation solutions and strategies Network incident mitigation strategies Network incident containment procedures Root cause analysis methodologies 	<ul style="list-style-type: none"> Electricity Act and regulations Industry standards and best practices in network incident management Key components of network incident management manuals Criteria and requirements of network incident response teams Network incident mitigation strategies Key stakeholder groups Post-mortem processes Network incident containment strategies Evidence retention frameworks 	

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<p>Abilities</p>	<ul style="list-style-type: none"> Identify the location and extent of outages Oversee contractor's work in resolving LV outages in accordance with Standard Operating Procedures (SOPs) Barricade affected work areas to prevent unauthorised access Witness test circuits and identify faulty cables using organisational test methods Isolate faulty cables Manage contractor's work in rectifying faults and restoring supply to the affected customers Escalate issues to relevant stakeholders according to SOPs Verify accuracy of complaints at customers' premises prior to the commencement of fault rectification activities Oversee reinstatement of affected site upon completion of all work activities in accordance with SOPs 	<ul style="list-style-type: none"> Maintain a tracker or log of network incidents to provide real time status reporting on affected circuits Monitor network incidents, in line with network incident management protocols Gather relevant information about network incidents Categorise the importance of network incidents based on established guidelines Identify the networks and user groups affected by the network incident based on information gathered Oversee mitigation of recurring network incidents Document the modifications made to troubleshoot and resolve problems or incidents in the network Perform evidence gathering to aid in the investigation of any potential breach of any legislative or regulatory provisions 	<ul style="list-style-type: none"> Review categorisation of network incidents, and determine its priority and the need for escalation Escalate network incidents to relevant stakeholder groups upon occurrence Perform first responder troubleshooting on network-related or supply security incidents, by following Standard Operating Procedures (SOPs) Analyse network incident reports, log files and affected circuits to identify threats and root causes of network incidents Assess network incident based on severity of network incidents and supply security implications Implement approved processes or technologies to mitigate future network incidents 	<ul style="list-style-type: none"> Integrate network-related information, alerts and analysis from detection system logs to develop a holistic view of network incidents Distil key insights and impact from analyses of network incidents Manage the containment of network incidents within the organisation Lead recovery of supply security after the network incidents Establish mitigation and prevention processes and policies Drive implementation of mitigation processes and policies Perform root cause analysis to determine source of network security breach and any breach of legislative or regulatory provisions Set prioritisation guidelines for network security incidents 	<ul style="list-style-type: none"> Establish network incident management procedures for the detection, reporting and handling of network incidents Develop a playbook for network incident management Lead network incident response teams Lead the remediation and resolution of network incidents at the organisational level Resolve large-scale, complex network incidents Make key decisions on when and how to communicate network incidents to different critical stakeholders Direct post-mortem activities following network incidents Develop network incident mitigation strategies Develop network incident response strategies Develop network incident evidence retention strategies 	
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