

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

TSC Category	Digitalisation					
TSC Title	Cybersecurity Framework Application					
TSC Description	Apply cybersecurity frameworks and implement practices to ensure safe and reliable networks and systems					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		<Insert TSC Code>	<Insert TSC Code>	<Insert TSC Code>		
		Follow cybersecurity procedures and practices in day to day work activities	Develop awareness on cybersecurity threats and risks within the industry and apply appropriate cyber risk management actions	Ensure compliance with relevant cybersecurity frameworks, and regulatory and industry best practices		
Knowledge		<ul style="list-style-type: none"> • Cybersecurity procedures and practices • Types of cyber threats • Types of information security issues • Agency policies and guidelines on cybersecurity • Network segregation policies • System hardening methods 	<ul style="list-style-type: none"> • Cybersecurity procedures and practices • Cybersecurity implementation practices • Response and incident management techniques for cyber threats • Response and incident management techniques for information security issues • Network segregation policies • System hardening methods • Approaches for intrusion monitoring, detection and response • Agency policies and guidelines on cybersecurity 	<ul style="list-style-type: none"> • Cybersecurity procedures and practices • Organisational digital processes • Tools, standards and guidelines for framework implementation • Cybersecurity implementation best practices • Methods to manage disruptions to business operations • Risk management analysis techniques • Impact and risk assessment for cybersecurity issues • Relevant cybersecurity frameworks, and regulatory and industry best practices 		
Abilities		<ul style="list-style-type: none"> • Stay abreast of agency policies and guidelines on cybersecurity • Observe cybersecurity procedures and practices Segregate transmission and 	<ul style="list-style-type: none"> • Develop awareness on agency policies and guidelines on cybersecurity • Supervise cybersecurity procedures and practices 	<ul style="list-style-type: none"> • Ensure implementation of cybersecurity procedures and practices • Resolve issues in cybersecurity implementation 		

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		<p>distribution networks from cyber networks by following pre-set policies and guidelines</p> <ul style="list-style-type: none"> • Conduct system hardening procedures 	<ul style="list-style-type: none"> • Identify potential issues in cybersecurity implementation • Monitor the segregation of transmission and distribution networks from cyber networks by monitoring activities in the networks • Respond to uncommon and unknown threats and intrusion 	<ul style="list-style-type: none"> • Estimate cybersecurity risks and recommend implementation methods to minimise disruption to business operations • Develop defence-in-depth strategies and controls • Ensure compliance with relevant cybersecurity frameworks, and regulatory and industry best practices 		
Range of Application		<p>Range of application includes, but is not limited to:</p> <ul style="list-style-type: none"> • Power Generation • Distributed Power Generation • Power Transmission and Distribution Network 				