

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

TSC Category	Installation, Testing and Commissioning					
TSC Title	Technical Inspection					
TSC Description	Manage technical inspection exercises to ensure quality, safety, and reliability, as well as adherence to technical specifications and compliance requirements					
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>	
		Witness technical inspection of electrical infrastructure according to work plans	Review technical inspection plans and procedures, and identify technical abnormalities and deviations in electrical infrastructure	Recommend technical inspection plans and procedures to ensure quality, safety and reliability of electrical infrastructure	Provide acceptance for technical inspection results in accordance with industry standards and project requirements	
Knowledge		<ul style="list-style-type: none"> • Methods of conducting basic technical inspections • Types of tools and equipment required for inspection work • Standard functional operation of components and systems • Inspection plans • Relevant regulations, industry standards, codes of practice and safety procedures 	<ul style="list-style-type: none"> • Methods of reviewing complex technical inspections • Technical inspection plans and procedures • Types of component and system faults • Implications of technical faults • Methods of mitigating technical faults • Documentation and escalation procedures for technical inspections • Relevant regulations, industry standards, codes of practice and safety procedures 	<ul style="list-style-type: none"> • Technical inspection plans and procedures • Methods of developing technical inspection procedures • Methods of evaluating technical inspection procedures • Methods of interpreting work orders • International safety codes and quality standards • Relevant regulations, industry standards, codes of practice and safety procedures 	<ul style="list-style-type: none"> • Processes for acceptance of technical inspection results • Methods of evaluating technical inspection procedures • International safety codes and quality standards • Relevant regulations, industry standards, codes of practice and safety procedures • Industry standards and best practices for ensuring compliance 	
Abilities		<ul style="list-style-type: none"> • Oversee checks for inspection and test tools and equipment • Oversee checks for functional operation of components and systems to ensure adherence to quality and safety standards • Witness inspection of equipment for damages against quality and safety standards 	<ul style="list-style-type: none"> • Ensure selection of inspection and test tools and equipment according to inspection plans • Review inspection of complex equipment • Identify components and systems that do not meet quality and safety standards • Review classification of faults according to criticality and suggest 	<ul style="list-style-type: none"> • Review work order and specifications to determine inspection requirements • Confirm inspection procedures to be applied • Recommend technical inspection procedures to ensure effectiveness • Contribute to the resolution of complex issues pertaining to quality, safety and 	<ul style="list-style-type: none"> • Evaluate inspection procedures to reflect industry developments, trends and best practices • Provide acceptance for technical inspection results in accordance with industry standards and project requirements • Advise on complex faults based on inspection results • Advocate compliance with industry standards, regulatory and project requirements 	

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		<ul style="list-style-type: none"> Record faults using appropriate forms and documentation procedures Verify that inspection is completed according to inspection plan 	<p>appropriate corrective measures</p> <ul style="list-style-type: none"> Ensure work orders are completed effectively Report inspection results and follow-up procedures to appropriate personnel 	<p>reliability of electrical infrastructure</p> <ul style="list-style-type: none"> Recommend inspection plans in alignment with industry standards, regulatory and project requirements 		
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