

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

TSC Category	Maintenance Management					
TSC Title	Facilities Maintenance Management					
TSC Description	Manage overall electrical maintenance for transmission and/or distribution facilities					
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>	
		Follow policies and procedures for electrical maintenance in transmission and/or distribution facilities	Oversee electrical maintenance in transmission and/or distribution facilities	Review plans and procedures for electrical maintenance in transmission and/or distribution facilities	Optimise and approve plans and procedures for electrical maintenance in transmission and/or distribution facilities	
Knowledge		<ul style="list-style-type: none"> • Electrical maintenance workflows in transmission and distribution facilities • Agency policies and procedures • Principles of facilities maintenance management • Principles of heating and cooling procedures or systems • Basic electrical maintenance • Common types of security breaches, facility damage, and other potential or actual threats 	<ul style="list-style-type: none"> • Electrical maintenance workflows in transmission and distribution facilities • Agency policies and procedures • Principles of facilities maintenance management • Facility risk management • Building utilities including electricity, gas, and water • Heating and cooling procedures or systems 	<ul style="list-style-type: none"> • Transmission and distribution facilities functions and systems • Transmission and distribution facilities design requirements • Quantitative and qualitative analysis of transmission and distribution facilities layouts • Best practices of transmission and distribution facilities maintenance management • Transmission and distribution facilities maintenance budget planning • Transmission and distribution facilities risk management and contingency planning • Transmission and distribution facilities security planning and maintenance 	<ul style="list-style-type: none"> • Transmission and distribution facilities strategies and procedures • Transmission and distribution facilities capital assets management • Quantitative and qualitative analysis of transmission and distribution facilities designs • Best practices of transmission and distribution facilities maintenance management • Transmission and distribution facilities maintenance financial management • Transmission and distribution facilities business continuity and emergency planning 	
Abilities		<ul style="list-style-type: none"> • Apply relevant policies and procedures for facility maintenance workflows, facilities maintenance 	<ul style="list-style-type: none"> • Maintain policies and procedures for facility maintenance workflows, facilities maintenance operations, systems, 	<ul style="list-style-type: none"> • Review policies and procedures for facility maintenance workflows, facilities maintenance operations, systems, 	<ul style="list-style-type: none"> • Approve work procedures and practices for services • Initiate improvements to the existing systems and processes for facility 	

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		<p>operations, systems, preventive measures and safety regulations</p> <ul style="list-style-type: none"> • Perform minor electrical works and repairs • Support facility faults recovery • Follow plans for routine monitoring checks, and ad-hoc maintenance procedures for response to faults • Follow vendor qualification procedures for repair and sourcing activities • Support implementation of facility maintenance risk management and evaluate effectiveness of implemented control measures • Support energy consumption planning and energy reduction initiatives • Support implementation of ventilation initiatives for fresh air requirements • Follow heating and cooling methods for better temperature control 	<p>preventive measures and safety regulations</p> <ul style="list-style-type: none"> • Supervise routine electrical minor works and repairs • Resolve facility faults independently • Oversee facility maintenance reports according to record-keeping requirements • Analyse facility maintenance costs and select appropriate maintenance plans • Implement plans for routine monitoring checks and ad-hoc maintenance procedures for response to faults • Maintain vendor qualification procedures for repair and sourcing activities • Identify potential safety risks and notify appropriate personnel • Implement facility maintenance risk management and evaluate effectiveness of implemented control measures • Implement initiatives to reduce utility usage and monitor consumption • Deploy methods to enhance temperature control • Supervise contractors and guide technicians on routine services 	<p>preventive measures and safety regulations</p> <ul style="list-style-type: none"> • Review work procedures and practices for minor works, repairs, external cleaning and repainting works • Manage site and investigations to troubleshoot and resolve problems for complex facility faults • Review facility maintenance costs and select appropriate maintenance plans • Review plans for routine monitoring checks and ad-hoc maintenance procedures for response to faults • Review facility maintenance risk management and evaluate effectiveness of implemented control measures • Monitor processes and procedures to develop and maintain security in the facilities • Deploy security measures and services • Guide technicians and technical officers on complex services 	<p>faults, operations and maintenance works</p> <ul style="list-style-type: none"> • Lead technicians and technical officers on complex services • Plan security measures and services • Drive policies and procedures for facility maintenance work flows, facilities maintenance operations, systems, preventive measures and safety regulations • Approve facility maintenance costs and appropriate maintenance plans • Approve plans for routine monitoring checks and ad-hoc maintenance procedures for response to faults • Approve facility maintenance risk management and evaluate effectiveness of implemented control measures 	
Range of Application		<p>Range of application includes, but is not limited to:</p> <ul style="list-style-type: none"> • Cable • Transformer • Switchgear • Reactors • Substation • Direct Current (DC) Units • Protection Relays 				