

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

TSC Category	Electrical and Power Engineering Fundamentals					
TSC Title	Network Technical Specifications Development					
TSC Description	Manage technical specifications for electricity network equipment and engineering services					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			<Insert TSC Code>	<Insert TSC Code>	<Insert TSC Code>	
			Support the preparation of technical specifications for electricity network equipment and engineering services	Develop technical specifications for electricity network equipment and engineering services	Review and approve technical specifications for electricity network equipment and engineering services	
Knowledge			<ul style="list-style-type: none"> • Understanding of legal and regulatory requirements for electricity networks • Awareness of relevant international and Singapore standards and codes for network equipment and engineering services • Types of detailed engineering drawings • Fundamentals of material science and construction technologies • Methods of developing equipment and/or material requisitions • Techniques to monitor and control network development activities • Principles of inspection and acceptance testing 	<ul style="list-style-type: none"> • Understanding of legal and regulatory requirements for electricity networks • Understanding of relevant international and Singapore standards and codes for network equipment • Relevant local and international standards and best practices for engineering services • Types of equipment Technical Qualifications (TQs) standards, procedures and practices • Equipment and/or Material take off (MTO) standards, procedures and practices • Network development principles • Cable laying project management principles • Cable laying project planning principles 	<ul style="list-style-type: none"> • Interpretation and application of legal and regulatory requirements for electricity networks • Interpretation and application of relevant international and Singapore standards and codes for network equipment • Types of the organisation's standard commercial and contractual requirements • Organisation's procurement objectives and evaluation criteria • Relevant local and international standards and best practices for engineering services • Technological advancements in network equipment and engineering services • Cable laying project constructability reviews, principles and practices • Cable laying project management principles and practices 	
Abilities			<ul style="list-style-type: none"> • Prepare of technical specifications for transmission or distribution network 	<ul style="list-style-type: none"> • Review and prepare technical specifications for network equipment and engineering services 	<ul style="list-style-type: none"> • Lead the Network Technical Specifications Development Team and provide technical guidance on technical 	

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			<p>equipment and engineering services</p> <ul style="list-style-type: none"> • Review detailed engineering layout and cable laying construction drawings to be included in the technical specification documents • Propose quality plans and inspection test plans to be included in the technical specification documents 	<ul style="list-style-type: none"> • Review detailed engineering design drawings • Review equipment and/or material requisitions and MTO requests • Review quality plans, inspection test plans, and acceptance tests stated in the technical specification documents • Conduct technical evaluations of proposals received, and make appropriate recommendations 	<p>specifications for network equipment and engineering services</p> <ul style="list-style-type: none"> • Develop technical specifications for network equipment and engineering services • Review to ensure conformance to organisational standards and approve technical specifications for network equipment and engineering services for tendering • Review technical evaluations, recommendations, and declared deviations in commercial or contractual terms • Recommend proposals that comply with work scope and organisational terms and conditions, meeting the organisation's procurement objectives and evaluation criteria 	
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