

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

TSC Category	Digitalisation					
TSC Title	Technology Road Mapping					
TSC Description	Plan for short-term and long-term goals for the implementation of new and emerging technologies to improve operational performance and address future market needs					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
					<Insert TSC Code>	<Insert TSC Code>
					Evaluate the feasibility of new and emerging technologies and oversee the development of an implementation roadmap	Explore wide applications of new and emerging technologies to enhance strategic and operational performance
Knowledge					<ul style="list-style-type: none"> • Methods to design, organise and prepare for the agency's technology road mapping exercise • New and emerging technologies in the market • Conduct analysis for new and emerging technologies in power systems • Market trends relevant to power systems • Prioritisation of power system's market drivers • Formulate and prioritise agency's internal goals or drivers • Methods to prioritise agency's new and emerging technologies products or services 	<ul style="list-style-type: none"> • Methods to design, organise and prepare for the organisation's road-mapping exercise • New and emerging technologies in the market • Evaluate the benefits and trade-offs of implementing new and emerging technologies to the business • Applicability of new and emerging technologies • Market trends and external drivers relevant to power systems • Prioritisation of power system's market drivers • Formulate and prioritise agency's internal goals or drivers • Methods to prioritise agency's new and emerging technologies • Charting of agency's technology road map

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<p>Abilities</p>					<ul style="list-style-type: none"> • Design, organise and prepare for agency's technology road mapping exercise • Assess the feasibility of new and emerging technologies • Formulate and prioritise agency's internal goals or drivers • Conduct charting of agency's technology roadmap 	<ul style="list-style-type: none"> • Review feasibility studies for new and emerging technologies • Assess applicability of new and emerging technologies as part of the agency's strategic plans • Review the application of new and emerging technologies to improve operation performance • Prioritise the launch of new and emerging based on market trends • Develop metrics to measure the effectiveness of new and emerging technologies
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