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

TSC Category	Electrical and Power Systems Management					
TSC Title	Lifts and Escalators Systems Management					
TSC Description	Manage the design, testing and commissioning of energy-efficient lifts and escalators					
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>**	
		Verify design and oversee installation and testing of lifts and escalators	Review design, testing and commissioning of lifts and escalators to ensure adherence to technical specifications	Provide solutions to optimise lifts and escalators, and ensure compliance with standards and requirements	Evaluate and approve proposals for lifts and escalators, and identify opportunities to adopt new technologies	
Knowledge		• Fundamentals of lifts and escalator design • Types of relevant materials • Engineering drawings and schematics • Standards and codes governing Electric Passenger and Goods Lift design • Standards and codes governing escalator design • Installation procedures for different lift and escalator types	• Types of lift shafts • Lifts construction tolerances • Escalator load determination techniques • Lifts and escalators design specifications • Green Mark Framework • Standards and codes governing Electric Passenger and Goods Lift design • Standards and codes governing escalator design • Installation procedures for different lift and escalator types	• Lift shaft materials and their properties • Lifts and escalators design specifications • Green Mark Framework • Safety requirements for lifts and escalators design • Sustainability regulations • Emerging technologies in lifts and escalators design • Industry best practices in lifts and escalators design	• Relevant lifts and escalators regulations • Sustainability regulations • Emerging technologies in lifts and escalators design • Industry best practices in lifts and escalators design	
Abilities		• Interpret installation layout drawing of lifts and escalators • Interpret wiring drawing • Supervise lifts and escalators installation • Inspect installation and testing for compliance with standards, codes and design specifications	• Evaluate the lift shaft type selection • Review the accuracy of lifts and escalators design calculations • Evaluate the tolerance calculation accuracy from the point of materials' properties • Check escalator load calculation accuracy • Evaluate energy efficiency of lifts and escalators design	• Drive adoption of Green Mark Framework when designing energy-efficient lifts and escalators • Evaluate the feasibility of emerging technologies in lifts and escalators designs • Conduct impact studies to assess the feasibility of incorporating industry best practices in lifts and escalators design	• Evaluate proposals and ensure proposals meet the Green Mark assessment criteria • Review feasibility studies on emerging technologies in lifts and escalators design Drive adoption of new technologies in lifts and escalators design • Lead discussions on industry best practices in lifts and escalators design	

			• Review testing and commissioning reports to verify compliance with standards, codes and design specifications • Provide guidelines for the installation of lifts and escalators		• Drive compliance with relevant regulations	