

**SKILLS FRAMEWORK FOR DESIGN
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE**

TSC Category	Technical Craft					
TSC	Design Standards and Specification					
TSC Description	Apply knowledge of relevant standards that govern the design requirements, and deliver design specifications according to the required standards					
TSC Proficiency	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			DSN-DES-3027-1.1	DSN-DES-4027-1.1	DSN-DES-5027-1.1	
			Implement design standards to ensure the designs meet acceptable levels of quality and requirements	Manage and inspect designs to ensure that they are executed in accordance with relevant required design standards, work quality and established policies and regulations	Lead the establishment of design standards and specifications to facilitate designs' fulfilment of regulatory requirements, and drive strategies to enhance quality of designs	
Knowledge			<ul style="list-style-type: none"> • Relevant design standards, guidelines, requirements and criteria • Relevant International Organisation for Standardisation (ISO) standards for design and development • Specifications for materials • Principles and practices of technical writing • Principles and procedures of record keeping • Training management 	<ul style="list-style-type: none"> • Current design legislation, codes, acts and regulations • Design principles, requirements and criteria • Best practices in design standards and specification • Related and upcoming international and local design laws, codes, acts and regulations in order to be prepared for any future challenges • Trends in design principles, requirements and criteria • Upcoming and relevant International Organisation for Standardisation (ISO) for design and development • Standards for materials • New standards and trends in materials • Performance requirements, dimensions, weight, reliability, ruggedness and other characteristics to satisfy during design 	<ul style="list-style-type: none"> • Best practices in design standards and specification • Related and upcoming international and local design laws, codes, acts and regulations in order to be prepared for any future challenges • Trends in design principles, requirements and criteria • Upcoming and relevant International Organisation for Standardisation (ISO) for design and development • New standards and trends in materials • Cost impact analysis 	

**SKILLS FRAMEWORK FOR DESIGN
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE**

<p>Abilities</p>			<ul style="list-style-type: none"> • Maintain technical documents related to the design standards and specification and update them for any changes • Implement and monitor adherence to policies, procedures, goals, objectives and standards that govern design standards and specifications, in collaboration with stakeholders • Develop documents governing technical standards and specifications pertaining to relevant designs • Participate in quality assurance/quality control (QA/QC) reviews and checks on design standards and specification documents • Organise trainings to diverse audiences, on up-keeping design standards and specification technical documents 	<ul style="list-style-type: none"> • Review the qualitative and quantitative characteristics to be satisfied during design • Inspect designs to uphold work quality and adherence to established policies, procedures and professional design standards • Manage design policies and procedures for compliance purposes • Adjust design standards and specifications, when necessary, through design directives • Facilitate quality management reviews during design development • Manage overall quality assurance/quality control (QA/QC) reviews and checks to ensure design standards are met 	<ul style="list-style-type: none"> • Formulate design standards and specifications for the organisation • Lead research efforts to propagate best practices in design standards and specifications • Initiate new design solutions to meet required standards set by the organisation, government and/or international bodies • Anticipate and plan for potential new regulations impacting design and development • Determine the cost impact of changes to design standards and specifications for the organisation • Guide the revision of procedures and standards for technical documentation 	
-------------------------	--	--	---	--	--	--