

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

TSC Category	Corporate Governance and Policies					
TSC	Design Sustainability and Ethics Management					
TSC Description	Create designs that consider the limitations, regulations and guidelines on intellectual property, sustainability, diversity, inclusivity and accessibility, aligning to behaviours and actions which are generally accepted in the profession					
TSC Proficiency	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			DSN-PVE-3011-1.1	DSN-PVE-4011-1.1	DSN-PVE-5011-1.1	DSN-PVE-6011-1.1
			Design products and services with sustainability and ethics in mind throughout the design process	Manage and review the design of products and services in order to meet ethical standards and sustainability goals of the organisation	Lead design activities with sustainability and ethics as the primary objective and integrate them into organisational design and production processes	Inspire organisational and industry stakeholders to direct their design practice towards addressing social and ecological concerns
Knowledge			<ul style="list-style-type: none"> Qualitative and quantitative research methodologies Concept of sustainable design Impact of design work on the environment Sustainable development issues and related technologies Environmental impact assessment Relevant environmental laws and regulations Ethical standards in the design sector 	<ul style="list-style-type: none"> Principles of sustainable design Environmental, economic and social aspects of design Sustainable development issues and related technologies Environmental impact assessment Relevant environmental laws and regulations Stages of the design production and consumption chains Life cycle analysis of products and/or services Ethical standards in the design sector 	<ul style="list-style-type: none"> Environmental, economic and social aspects of design Stages of the design production and consumption chains Humanisation of design, conditions under which the products are manufactured and other factors for consideration Business values, social responsibility and ethics within product design Sustainable related technologies Environmental law, regulation and management Life cycle analysis of products and/or services Emerging trends in sustainability issues and methods Global ethical standards in the design sector 	<ul style="list-style-type: none"> Principles and theories of sustainable design and social design Emerging trends in sustainability issues and methods Social innovation Stakeholder and community engagement strategies Concept of participatory design methods for ensuring results meet all stakeholder needs Approaches in scenario planning Global ethical standards in the design sector

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<p>Abilities</p>			<ul style="list-style-type: none"> • Conduct research to understand consumer values and attitudes pertaining to sustainability in order to increase their attachment to the organisation's products and/or services • Design products with ethical consideration of human-machine interaction and its implications • Design products that consume less energy during usage • Develop end-of-use options for current products • Design products with the understanding of how products' shapes and sizes would affect packaging, transportation and emissions • Adhere to appropriate Codes of Conduct 	<ul style="list-style-type: none"> • Review the organisation's current products to determine new designs that can minimise waste • Manage the development of new products to make use of waste from existing products and minimise the use of new materials • Review the impact of human-machine interaction and its implications on ethics • Analyse the packaging used for the organisation's products to increase the amount of recycled content used • Review the organisation's existing sustainable products and new sustainable product designs to reduce their cost • Enforce disciplinary action against non-compliance to design ethics and Codes of Conduct 	<ul style="list-style-type: none"> • Drive systems thinking to enable stakeholders to consider the full life cycles of products in order to design the retrieval, dismantling and reuse of products right from the beginning • Implement lifecycle thinking to quantify the environmental impact of design work within the organisation • Lead ethical awareness in the organisation on human-machine interaction • Set strategies and benchmarks to reduce waste in the organisation • Drive dematerialisation strategies to reduce the total material and energy throughput of organisational products and/or services • Lead Corporate Social Responsibility (CSR) efforts to include moral product and service systems in designs • Drive the integration of techno-centric, eco-centric and socio-centric dimensions in the design process • Initiate changes to production solutions to address sustainable design problems • Develop plans to promote the highest quality of design practice and strengthen public confidence in the design profession 	<ul style="list-style-type: none"> • Develop work plans to enable stakeholders in the industry to address poverty, unemployment and other societal challenges • Conceive new roles and mandates for the design sector that can address societal challenges • Cultivate in stakeholders the ability to develop socially-led design propositions • Translate societal challenges into problems to be addressed by the organisation and sector • Generate socially-led design outcomes and interventions for the organisation and design sector • Anticipate future sustainability issues that may affect the organisation and the design sector's products and services • Synthesise guidelines to anticipate future ethical considerations that may affect the design sector and the organisation's products and services
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