

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

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| TSC Category | Environment | | | | | |
| TSC | Water Sensitive Urban Design | | | | | |
| TSC Description | Incorporate considerations for optimal utilisation of natural water resources in the planning and design of urban areas | | | | | |
| TSC Proficiency Description | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |
| | | | | LNS-GED-4004-1.1 | LNS-GED-5004-1.1 | |
| | | | | Develop landscape designs with considerations for efficient water management and preservation of water quality | Influence urban design from the perspective of efficient water management and preservation of water quality | |
| Knowledge | | | | <ul style="list-style-type: none"> Principles of water cycle Concepts and methods of stormwater management and treatment Impact of urban developments on the water cycle, ground water table and water quality Landscape features that can be used to manage stormwater run-off Solutions to preserve water quality within urban developments Principles of drainage and irrigation | <ul style="list-style-type: none"> Principles of water sensitive urban design Best practices in water sensitive urban design Adverse impact of conventional urban design approaches on local climate and water resources Ways to incorporate principles of stormwater management in landscape design Ways to protect and enhance natural water systems within urban developments Solutions to improve water quality within urban developments Commercial, implementation time and other resource considerations in implementation of water sensitive urban design Environmental health considerations for landscape design and water management | |
| Abilities | | | | <ul style="list-style-type: none"> Ideate new design solutions to enhance water utilisation efficiency | <ul style="list-style-type: none"> Drive identification of new ways of enhancing water utilisation efficiency in urban areas through design | |

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| | | | | <ul style="list-style-type: none"> • Assess design plans for upcoming developments to understand the impact on the water resources in the area • Communicate water impact of upcoming developments to key stakeholders • Explore landscape design-based solutions for managing natural water utilisation and quality • Develop landscape designs incorporating water sustainable urban design considerations • Build stormwater management and water quality preservation solutions and features into landscape designs | <ul style="list-style-type: none"> • Evaluate impact of upcoming developments on the water resources in the area • Advise on the incorporation of water sensitive urban design principles in building design • Evaluate landscape design-based solutions for managing natural water utilisation and quality • Drive the development of landscape designs aligned to water sensitive urban design practices • Advise on the use of landscapes for stormwater management and preservation of water quality • Influence key stakeholders in the adoption of landscape designs with water sensitive urban design considerations | |
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