

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

<b>TSC Category</b>	Landscape Engineering					
<b>TSC</b>	Skyrise Greenery Maintenance					
<b>TSC Description</b>	Plan and execute the maintenance of skyrise greenery					
<b>TSC Proficiency Description</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>	<b>Level 6</b>
	<b>LNS-GNM-1022-1.1</b>	<b>LNS-GNM-2022-1.1</b>	<b>LNS-GNM-3022-1.1</b>	<b>LNS-GNM-4022-1.1</b>		
	Perform routine tasks to maintain the health and aesthetics of skyrise greenery	Execute maintenance of skyrise greenery with the use of mechanisation and technology	Supervise the maintenance of skyrise greenery	Develop plans for the maintenance of skyrise greenery		
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>Basic plant maintenance tasks in skyrise greenery</li> <li>Components of skyrise greenery</li> <li>Functionality and operation of irrigation systems, drainage systems and grow lights used in skyrise greenery</li> <li>Functionality of nutrition systems used in skyrise greenery</li> <li>Housekeeping and hygiene standards and practices for indoor plant maintenance work</li> <li>Personal Protective Equipment (PPE) required for skyrise greenery maintenance</li> <li>Relevant workplace safety and health (WSH) guidelines</li> </ul>	<ul style="list-style-type: none"> <li>Characteristics of plant species used in skyrise greenery</li> <li>Materials used in skyrise greenery</li> <li>Maintenance procedures and tasks for skyrise greenery</li> <li>Characteristics and composition of growing media used in skyrise greenery</li> <li>Operation of irrigation systems used in skyrise greenery</li> <li>Methods to interpret sensor signals and data received from remote monitoring systems used in skyrise greenery</li> <li>Operation of hydroponic systems</li> <li>Application of chemicals and biological agents in pest and infestation management</li> <li>Personal Protective Equipment (PPE) required for skyrise greenery maintenance</li> <li>Relevant workplace safety and health (WSH) guidelines</li> </ul>	<ul style="list-style-type: none"> <li>Characteristics of plant species used in skyrise greenery</li> <li>Maintenance procedures and tasks in skyrise greenery</li> <li>Sensors and other remote monitoring systems used in skyrise greenery</li> <li>Composition of nutrient chemicals used in hydroponic systems</li> <li>Methods of evaluating nutrition levels in growing media and hydroponic solutions</li> <li>Pest and infestation management for indoor sites</li> <li>Safe handling practices for chemicals</li> <li>Personal Protective Equipment (PPE) required for skyrise greenery maintenance</li> <li>Relevant workplace safety and health (WSH) guidelines</li> </ul>	<ul style="list-style-type: none"> <li>Best practices in maintenance of skyrise greenery</li> <li>Maintenance requirements of plants used in skyrise greenery</li> <li>Nutrition modes used with skyrise greenery</li> <li>Preventive and curative pest and disease management</li> <li>Resources required for maintenance of skyrise greenery</li> <li>Technology and automation used in skyrise greenery</li> <li>Relevant workplace safety and health (WSH) guidelines</li> </ul>		
<b>Abilities</b>	<ul style="list-style-type: none"> <li>Wear appropriate PPE before commencing</li> </ul>	<ul style="list-style-type: none"> <li>Wear appropriate PPE before commencing</li> </ul>	<ul style="list-style-type: none"> <li>Plan the maintenance of skyrise greenery on sites depending on the type of</li> </ul>	<ul style="list-style-type: none"> <li>Establish standard procedures and guidelines for the</li> </ul>		

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	<p>maintenance of skyrise greenery</p> <ul style="list-style-type: none"> <li>• Prepare tools, equipment and materials required for green wall maintenance</li> <li>• Check nutrition levels in growing media</li> <li>• Perform routine pruning and general trimming to remove dead plant material and promote growth</li> <li>• Remove weeds and other invasive species</li> <li>• Replace dead, decaying or diseased plants from skyrise greenery</li> <li>• Clear horticultural waste</li> <li>• Check irrigation and drainage systems for proper functioning</li> <li>• Check grow lights for proper functioning</li> <li>• Adhere to relevant WSH guidelines</li> </ul>	<p>maintenance of skyrise greenery</p> <ul style="list-style-type: none"> <li>• Monitor health of skyrise greenery using sensors and/or through visual inspection of plants</li> <li>• Perform pruning and shaping of plants to maintain the visual aesthetics of the skyrise greenery</li> <li>• Maintain nutrition levels of the hydroponic solution by the addition of prescribed chemical mix</li> <li>• Apply biological agents or chemicals to remediate pests or infestation</li> <li>• Replenish media and substrate to ensure optimal growing conditions for plants in skyrise greenery</li> <li>• Recommend replacement of plants in skyrise greenery</li> <li>• Replace parts of the structural frames in case of damage or wear and tear</li> <li>• Perform cleaning and maintenance of irrigation systems</li> <li>• Report issues with plant panels or irrigation systems</li> <li>• Adhere to relevant WSH guidelines</li> </ul>	<p>systems, nature of plants and site conditions</p> <ul style="list-style-type: none"> <li>• Allocate green wall maintenance tasks to workers</li> <li>• Review contingency maintenance requirements for skyrise greenery</li> <li>• Train and supervise workers in the operation and maintenance of automated systems used in skyrise greenery</li> <li>• Prepare nutrient chemical mixes to maintain nutrient levels of hydroponic systems</li> <li>• Recommend the replacement of dead, decaying or diseased plants from skyrise greenery</li> <li>• Monitor skyrise greenery maintenance processes on site</li> <li>• Record skyrise greenery maintenance activities and issues on site for reporting</li> <li>• Lead adherence to relevant WSH guidelines</li> </ul>	<p>maintenance of skyrise greenery</p> <ul style="list-style-type: none"> <li>• Promote the adoption of automation for the maintenance of skyrise greenery</li> <li>• Determine the resources required for the maintenance of skyrise greenery</li> <li>• Develop plans and schedules for the maintenance of skyrise greenery</li> <li>• Resolve technical challenges and issues in the maintenance of skyrise greenery from a horticultural perspective</li> <li>• Review site reports to assess the performance and progress of maintenance of skyrise greenery on a periodic basis</li> <li>• Enforce adherence to relevant WSH guidelines</li> </ul>		
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