

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

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| TSC Category | Landscape Engineering | | | | | |
| TSC | Landscape Tools, Equipment and Machinery Management | | | | | |
| TSC Description | Manage the safe and effective use of tools, equipment and machinery in landscape operations | | | | | |
| TSC Proficiency Description | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |
| | LNS-GNM-1021-1.1 | LNS-GNM-2021-1.1 | LNS-GNM-3021-1.1 | LNS-GNM-4021-1.1 | | |
| | Operate tools and equipment as part of landscape operations | Operate and maintain tools, equipment and specialised machinery as part of landscape operations | Supervise the selection, operation, maintenance and management of tools, equipment and machinery for landscape operations | Establish standards and guidelines for the selection, operation, maintenance and management of tools, equipment and machinery for landscape operations | | |
| Knowledge | <ul style="list-style-type: none"> Procedures for preparation of tools and equipment for operation Methods of inspection of tools and equipment Standard Operating Procedures (SOPs) for tools and equipment Methods for cleaning and storage of tools and equipment Procedures for tagging and reporting of unsafe or faulty tools Hazards associated with the use of tools and equipment Personal protective equipment (PPE) required for use of tools and equipment Relevant workplace safety and health (WSH) guidelines | <ul style="list-style-type: none"> Procedures for preparation of specialised machinery for operation Pre-operational checks to be performed on the specialised machinery Process of calibrating tools, equipment and specialised machinery Standard Operating Procedures (SOPs) for different kinds of machinery used as part of own work Maintenance procedures for tools, machinery and equipment Methods to record maintenance procedures on tools, equipment and machinery Environmental control regulations for machinery waste management Use and storage of fuel used in mechanised equipment and machinery Relevant workplace safety and health (WSH) guidelines | <ul style="list-style-type: none"> Various tools and equipment and their uses in the industry Functions and operation of tools and equipment Calibration of specialised tools and equipment Personal protective equipment (PPE) suitable for operational practices Maintenance service of tools and equipment according to manufacturer's specifications Workplace safety and health (WSH) procedures and policies Documentation and recording practices and procedures for operation and maintenance of tool, equipment and machinery | <ul style="list-style-type: none"> Types and classification of tools and equipment required for various landscape work Various functions and operations of tools and equipment and their advantages and disadvantages New and upcoming tools and equipment to increase efficiency and decrease costs Management and process of scheduling Housing and storage options for tools and equipment Workplace safety and health (WSH) procedures and policies | | |

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| <p>Abilities</p> | <ul style="list-style-type: none"> • Select common tools and equipment for landscape operations • Wear appropriate PPE before use of tools and equipment • Perform visual inspection to determine working condition of tools and equipment before operation • Prepare tools and equipment for operations • Operate tools and equipment in accordance with manufacturer's instructions to ensure personnel safety • Perform basic cleaning, maintenance and storing of tools and equipment under supervision • Report unsafe and/or faulty tools and equipment to supervisor | <ul style="list-style-type: none"> • Prepare tools, equipment and machinery for operation as per manufacturer's instructions • Conduct pre-operational checks on tools, equipment and machinery • Calibrate tools, equipment and machinery to achieve expected outcomes as per manufacturer's specifications • Operate tools, equipment and machinery as prescribed to meet operational requirements • Perform cleaning and storing of tools, equipment and machinery in adherence to WSH requirements • Perform standard service or maintenance of tools, equipment and machinery as per manufacturer's instructions • Dispose of waste and parts according to environmental control regulations • Record performed maintenance procedures and observed faults and worn out parts | <ul style="list-style-type: none"> • Verify the tools and equipment selected for various landscape operations • Verify the calibration of specialised tools and equipment according to specifications and guidelines • Monitor effectiveness of tools and equipment on performing landscape work • Supervise operation of specialised machinery to meet operational requirements • Determine resources required to carry out maintenance according to manufacturer's specifications and enterprise guidelines • Supervise maintenance procedures as per manufacturer's guidelines • Analyse maintenance problems from observation and operational reports • Supervise post-operational service and storage of tools and equipment according to guidelines | <ul style="list-style-type: none"> • Evaluate the specifications of available tools and equipment • Manage available tools and equipment by matching their specifications to operational needs, processes and WSH requirements • Develop tools and equipment performance evaluation procedures • Review performance claims and specifications in product literature through consultations • Develop tools and equipment maintenance and/or replace schedules • Justify the purchase decision of new tools and equipment and/or replacement of faulty tools and equipment • Establish guidelines for the storage of tools and equipment in accordance to WSH requirements | | |
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