

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

<b>TSC Category</b>	Nursery Management					
<b>TSC</b>	Plant Propagation and Production					
<b>TSC Description</b>	Propagate plants using a variety of propagation means to support plant production activities					
<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-OPR-1058-1.1</b>	<b>LNS-OPR-2058-1.1</b>	<b>LNS-OPR-3058-1.1</b>	<b>LNS-OPR-4058-1.1</b>		
	Assist in plant propagation activities to support plant production	Perform plant propagation procedures to support plant production activities	Implement plant propagation programmes	Develop plant propagation programmes to meet the organisation's plant production requirements		
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>Common plant propagation methods and procedures</li> <li>Methods and guidelines for collection, treatment, processing and storage of plant material used for propagation</li> <li>Storage of plant propagation material</li> <li>Equipment used in plant propagation</li> <li>Aftercare procedures for newly propagated plants</li> <li>Housekeeping, waste management and hygiene procedures for plant propagation facilities</li> <li>Personal protective Equipment (PPE) required for horticultural tasks</li> <li>Relevant workplace safety and health (WSH) guidelines</li> </ul>	<ul style="list-style-type: none"> <li>Plant propagation methods and procedures</li> <li>Types of plant materials, seeds, cuttings, buds and grafts used for propagation</li> <li>Treatments for pests and diseases</li> <li>Components and mixing proportions for various growing media</li> <li>Guidelines for handling plant materials and propagation media</li> <li>Plant nutrition and aftercare requirements, methods and procedures</li> <li>Housekeeping, waste management and hygiene procedures for plant propagation facilities</li> <li>Personal protective Equipment (PPE) required for horticultural tasks</li> <li>Relevant workplace safety and health (WSH) guidelines</li> </ul>	<ul style="list-style-type: none"> <li>Plant propagation methods and procedures</li> <li>Use cases of various plant propagation methods</li> <li>Types of plant materials used for propagation</li> <li>Considerations for selection of parent plants for propagation</li> <li>Environmental factors to be optimised for propagation</li> <li>Housekeeping, waste management and hygiene standards required in plant propagation facilities</li> <li>Risks and hazards associated with plant propagation</li> <li>Plant nutrition and aftercare requirements, methods and procedures</li> <li>Personal Protective Equipment (PPE) required for horticultural tasks</li> <li>Relevant workplace safety and health (WSH) guidelines</li> </ul>	<ul style="list-style-type: none"> <li>Principles of plant propagation</li> <li>Use cases and advantages of various plant propagation methods</li> <li>Best practices in plant propagation and production</li> <li>Planning considerations for plant propagation and production</li> <li>Environmental and seasonal considerations for plant propagation</li> <li>Risks and hazards associated with plant propagation</li> <li>Relevant workplace safety and health (WSH) guidelines</li> </ul>		

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<p><b>Abilities</b></p>	<ul style="list-style-type: none"> <li>Identify parent plants from which material is to be collected</li> <li>Collect plant materials for propagation</li> <li>Perform drying and other processing of collected plant material</li> <li>Store plant material in appropriate containers with prescribed conditions and required labelling</li> <li>Prepare planting medium for propagations</li> <li>Perform plant care for newly propagated plants</li> <li>Perform housekeeping and hygiene maintenance tasks to minimise contamination risk</li> <li>Adhere to relevant WSH practices and guidelines for plant propagation activities</li> </ul>	<ul style="list-style-type: none"> <li>Select the appropriate methods of propagation for the species according to prescribed guidelines</li> <li>Collect, process and treat plant propagation materials</li> <li>Prepare appropriate tools, equipment, containers, propagating media and additives for propagation</li> <li>Maintain hygiene in propagation areas to minimise contamination risk</li> <li>Execute plant propagation techniques in accordance with prescribed procedures</li> <li>Provide water, nutrition and aftercare to plants after propagation</li> <li>Record propagation activities for compliance and reporting</li> <li>Adhere to relevant WSH practices and guidelines for plant propagation activities</li> </ul>	<ul style="list-style-type: none"> <li>Determine propagation method best suited to the type of species</li> <li>Oversee preparation of nursery or other propagation facilities for propagation</li> <li>Determine tools, equipment and machinery for plant propagation</li> <li>Guide the collection and processing of plant propagation material</li> <li>Determine pre-propagation treatments required for optimising production</li> <li>Guide the execution of appropriate propagation techniques in accordance with prescribed procedures</li> <li>Implement housekeeping, waste management and hygiene standards in propagation facilities</li> <li>Lead adherence to relevant WSH practices and guidelines for plant propagation activities</li> </ul>	<ul style="list-style-type: none"> <li>Establish guidelines and procedures for plant propagation and production in the nursery</li> <li>Develop plant propagation plans based on the organisation's requirements</li> <li>Advise on tools, equipment and machinery to be used for plant propagation</li> <li>Advise nursery team on specimen selection and optimal propagation conditions</li> <li>Advise on plant propagation activities from a horticultural perspective</li> <li>Resolve challenges and issues in plant propagation</li> <li>Establish standards for housekeeping and waste management in alignment with applicable compliance requirements</li> <li>Enforce adherence to relevant WSH practices and guidelines for plant propagation activities</li> </ul>		
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