

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

TSC Category	Arboriculture					
TSC	Tree Removal					
TSC Description	Undertake felling of trees to clear area for new developments or remove diseased or decaying trees					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	LNS-GNM-1007-1.1	LNS-GNM-2007-1.1	LNS-GNM-3007-1.1	LNS-GNM-4007-1.1	LNS-GNM-5007-1.1	
	Perform tree felling for small trees and support tree felling operations on site	Perform tree felling for large trees by executing felling tasks from height or in complex situations	Oversee tree felling operations on site	Direct tree felling operations on site by providing technical guidance to the execution teams	Plan tree felling operations by assessing scope and risks on site, developing execution schedules, establishing procedures for tree felling and reviewing operations periodically	
Knowledge	<ul style="list-style-type: none"> Site preparation requirements for tree removal Methods for cutting and felling small trees Use of tools, equipment and machinery required for tree and stump removal Factors affecting method of stump removal Grinding procedures for stump removal Wood chipping and log processing methods Personal Protective Equipment (PPE) required for tree felling operations Relevant guidelines for workplace safety and health (WSH) 	<ul style="list-style-type: none"> Tree climbing and other access methods and techniques Different felling cuts used in tree felling according to size and condition of trees Methods to estimate branch weight Use of tools, equipment and machinery required for tree felling and stump removal Rigging and directional felling procedures Site clearing and environmental compliance requirements Personal Protective Equipment (PPE) required for tree felling operations Relevant guidelines for workplace safety and health (WSH) 	<ul style="list-style-type: none"> Process of marking trees before felling Application of different felling cuts according to situations Rigging and directional felling procedures Communication procedures and equipment for site communication Roles of ground staff in tree removal operations Application of tools, equipment and machinery required for felling of trees Site clearing and environmental compliance requirements Personal Protective Equipment (PPE) required for tree felling operations Relevant guidelines for workplace safety and health (WSH) 	<ul style="list-style-type: none"> Tree health, structure and stability parameters Compression and tension woods arising out of tree structure Considerations for selection of felling methods in different situations Application of tools and equipment for tree felling in various situations Rigging techniques and applications Rigging calculations and load specifications Risks associated with tree felling Recognised tree felling methods for application in standard cases Alternate tree felling methods for non-standard situations Relevant guidelines for workplace safety and health (WSH) 	<ul style="list-style-type: none"> Risk assessment of tree felling operations Advantages and limitations of different tree felling methods Planning considerations and factors for arboriculture works Implications of terrain, ground conditions, season, weather and tree condition on the felling of trees Legislative and regulatory compliance requirements for tree felling Environmental impact mitigation for tree felling operations Relevant guidelines for workplace safety and health (WSH) 	
Abilities	<ul style="list-style-type: none"> Prepare sites for felling trees Confirm instructions on tree felling process, sequence of cuts, drop 	<ul style="list-style-type: none"> Prepare sites for tree removal works by establishing drop zones Perform pre-operational and safety checks for selected tools, 	<ul style="list-style-type: none"> Inspect sites for readiness to commence felling operations Communicate felling cuts and methods to be 	<ul style="list-style-type: none"> Assess sites to understand scope of tree felling operations Specify felling cuts and methods to be deployed 	<ul style="list-style-type: none"> Establish the scope and objectives of tree removal Evaluate risks associated with tree removal on site 	

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	<p>zones and tool selection with the site supervisor</p> <ul style="list-style-type: none"> • Perform pre-operational and safety checks for selected tools, equipment and machinery according to manufacturer's specifications and organisational guidelines • Fell trees in one piece using basic cuts • Perform removal of tree stumps by grinding to below-ground levels using manual or mechanised means • Process felled logs into manageable blocks or chips using appropriate techniques • Restore tree removal site after completion of felling operations • Adhere to relevant WSH guidelines for arboriculture operations 	<p>equipment and machinery according to manufacturer's specifications and organisational guidelines</p> <ul style="list-style-type: none"> • Climb trees manually or use mechanised elevated platforms to execute felling cuts from height • Assist in the rigging of tree sections to facilitate safe felling cuts from height and/or in confined spaces • Use appropriate cuts to dismantle branches from tree using appropriate tools, equipment and machinery • Lower rigged branches after cutting into drop zones in coordination with ground staff • Process timber blocks with disposal equipment to clear sites in accordance with manufacturers' guidelines • Adhere to relevant WSH guidelines for arboriculture operations 	<p>deployed to the technician</p> <ul style="list-style-type: none"> • Plan the sequence of felling cuts to control direction of fall • Rig tree sections to facilitate safe felling cuts from height or in confined spaces • Guide felling by directing technicians involved in felling • Guide movement and activities of ground technicians during tree felling • Oversee clearance and restoration of tree removal site to a safe state • Oversee adherence to relevant WSH for arboriculture operations 	<p>based on specific tree sizes and condition</p> <ul style="list-style-type: none"> • Specify tools, equipment and machinery to be used based on tree and site requirements • Calculate dimensions and mass of tree sections to determine rigging approaches • Communicate felling procedures to site supervisors • Monitor tree removal operations at the site • Provide technical guidance to tree felling team in complex cases • Enforce adherence to applicable WSH guidelines 	<ul style="list-style-type: none"> • Identify trees to be felled on site during site evaluation • Develop plan for tree removal operations • Establish procedures for tree felling for a site based on site evaluation • Establish the monitoring requirements for the tree felling operations • Develop plans to manage the impact of tree felling on the surrounding areas and environment • Review tree felling operations periodically 	
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