

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

TSC Category	Arboriculture					
TSC	Tree Climbing and Aerial Rescues					
TSC Description	Access trees by climbing to carry out arboriculture works or aerial rescue in an emergency situation					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	LNS-GNM-1003-1.1	LNS-GNM-2003-1.1	LNS-GNM-3003-1.1			
	Perform basic tree climbing under supervision	Perform tree climbing and simple aerial rescues	Perform advanced climbing and rescues in arboriculture situations			
Knowledge	<ul style="list-style-type: none"> • Inspection and maintenance procedures for tree climbing equipment • Pre-climb inspection and risk assessment of tree • Types of knots and harnessing techniques used in tree climbing • Tree climbing fundamentals and techniques • Personal safety hazards and worksite hazards involved in tree climbing • Basic descent techniques and procedures • Personal protective Equipment (PPE) required for tree climbing and arboriculture tasks • Relevant workplace safety and health (WSH) guidelines 	<ul style="list-style-type: none"> • Inspection and maintenance procedures for tree climbing equipment • Risks and hazard assessment of worksite for tree climbing • Pre-climb inspection and risk assessment of trees • Types of knots, harnessing techniques used in tree climbing • Tree climbing techniques using climbing equipment • Descent techniques, procedures and systems for tree climbing and aerial rescues • Emergency procedures, and basic physical assessment of victim required for aerial rescue • Rescue and post-rescue procedures • Personal protective Equipment (PPE) required for tree climbing and arboriculture works • Relevant workplace safety and health (WSH) guidelines 	<ul style="list-style-type: none"> • Personal Protective Equipment (PPE) required for tree climbing • Inspection and maintenance procedures for tree climbing equipment • Risks and hazard assessment of tree and worksite for tree climbing • Compliance requirements for tree climbing • Emergency planning and procedures used for the aerial rescue operations • Set-up of climbing lines • Tree climbing, branch walking and descent techniques and systems used in various situations • Aerial rescue techniques used in different situations • Operational challenges in executing tree climbing and aerial rescues • Relevant workplace safety and health (WSH) guidelines 			
Abilities	<ul style="list-style-type: none"> • Wear appropriate PPE according to specifications before 	<ul style="list-style-type: none"> • Select and use appropriate equipment, including PPE before 	<ul style="list-style-type: none"> • Select and use appropriate equipment, including PPE before 			

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	<p>commencing tree climbing activities</p> <ul style="list-style-type: none"> • Carry out pre-climb inspection of tree • Verify climbing approaches and techniques to be taken with the supervisor • Assist in setting up climbing systems, harnesses and knots • Climb trees under supervision • Descend safely from tree under supervision 	<p>commencing tree climbing activities</p> <ul style="list-style-type: none"> • Set up safe work area to minimise worksite risks and hazards • Carry out pre-climb inspection of trees • Inspect climbing equipment for defects • Set up climbing systems, harnesses and knots • Climb trees using appropriate techniques and equipment as required for the specific tree and conditions • Set up emergency evacuation systems on ground to enable responsive evacuation of victims • Perform aerial rescue of victims using required rescue techniques • Record and report aerial rescues to appropriate authorities and supervisor • Report tree climbing and other equipment's performance, damage or malfunctions according to operational procedures 	<p>commencing tree climbing activities</p> <ul style="list-style-type: none"> • Assess tree to identify risks, plan climbing, and determine roping positions and climbing techniques • Set up climbing lines and ropes for climbing • Climb tree using appropriate equipment, and techniques in complex situations • Reach victim using climbing lines and branch walking techniques • Perform complex aerial rescue of victim in emergency situations • Perform tree descent using re-directs or counterweights • Document climbing and rescue activities for compliance and reporting • Report tree climbing and other equipment's performance, damage or malfunctions according to operational procedures 			
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