SAFE WORK METHOD STATEMENT



SWMS No.: SWMS-TF01 WORK ACTIVITY DESCRIPTION: Tree Felling
HIGH RISK ACTIVITY: Yes



WORK AT HEIGHTS



FALLING OBJECTS



MANUAL HANDLING



CHAINSAWS



NOISE

This summary page is a non-exhaustive list of hazards and is not a substitute for reading the entire SWMS.

Personal Protective Equipment



High Visibility



Foot Protection



Long Sleeve Clothing



Hearing Protection



Head Protection



Fall Protection



Eye Protection

Project Details							
Client:	Sample Client	Project:	123 Fake St, Burwood NSW				
Project Start Date:	01/01/2012	Expected Finish Date:	04/01/2011				
Project Specific Requirements: Project General Induction Job Hazard Assessment (JSA) to be completed prior to work commencement							

Activity Requirements	
Plant and Equipment Required	Chainsaws
for this Activity:	Ropes, Harnesses, Pulleys
Plant and Equipment Inspections	Daily Plant Inspections to be completed.
Required:	All electrical equipment to be tested and tagged.
MSDS(s) Required:	Unleaded Petrol
Legislation, Australian Standards	NSW Occupational Health and Safety Act 2004
& Codes of Practice Consulted in	NSW Consolidated Occupational Health and Safety Regulations 2007
the Development of this SWMS:	113 W Consolidated Occupational Health and Safety Regulations 2007
Personnel Qualifications &	Work Cover General Induction Card Manual handling training
Training Required for this	Certificate III in Arboriculture Chainsaw training
Activity:	Chairsaw training

Revision Details							
Company:	Sydney Tree Removals	ABN:	77 226 987 577				
Business Address:	Concord Rd North Strathfield NSW 2137	Senior Employer Representative:	Geoff Ashton (Mob: 0488 222 296)				
Business Phone:	0488 222 296	Business Email:	geoff@sydneytreeremovals.com.au				
Personnel Responsible for Monitoring this Activity	Supervisor	Personnel Consulted on Development of SWMS:	Brad Patteri				
SWMS Approval Date:	01/01/2012	To Be Reviewed By:	01/07/2012				

SWMS Review						
Acceptance	Position Signature	Date				
We hereby accept the controls as detailed in this SWMS and confirm / controls will be implemented & complied with.	Personnel Name:					
Accepted & Approved by Sydney Tree Removals Representative.	Managing Director Geoff Ashton					

Review No.	1	2	3	4	5	6	7	8	9	10
Name & Initials	BP									
Date	01/01/12									

Hierarchy of Control:				
Highest level of Control				Lowest Level of Control
Elimination	 Substitution	 Engineering	Administration	PPE
The Hierarchy of Control is a options. Be careful to assess			or minimise exposure to the hazard. C	Consider elimination before all other

Risk Matrix							
How squarely sould it hurt sameone or how		How likely is	s it to occur?				
How severely could it hurt someone or how ill could it make someone?	Very Likely Could happen anytime	Likely Could happen sometime	Unlikley Could happen but very rarely	Very unlikely Could happen, but probably not			
Catastrophic Permanent disability or illness	3 / High	3 / High	3 / High	2 / Medium			
Major Extensive injuries or long term illness	3 / High	3 / High	2 / Medium	2 / Medium			
Moderate Medical treatment and several days off work	3 / High	2 / Medium	2 / Medium	1 / Low			
Minor First aid treatment needed only	2 / Medium	2 / Medium	1 / Low	1 / Low			

Risk Score	
Score	Action Required
3 / High	Do something to immediately minimise the risks. Highest management decision is required to continue work.
2 / Medium	Follow management instructions & control measures in place.
1/Low	OK for now. Review if equipment, material, work processes or procedures change.

Procedure (in steps)	Potential Hazards	Risk Before	Control Measures	Risk After	Person Responsible
Step 1	Unknown hazards	3/H		1/L	Supervisor
Complete Job					Work Crew
Hazard Assessment,					Work Crew
SWMS, & Daily Plant					
Inspection					
				A	
	Incorrect procedures				
	Incorrect protective				
	equipment				
Step 2	Personal Injury:	3/H	Assess tree/s to be felled. Determine:	2/M	Supervisor
Planning	crushing		size and arrangement of trees type of trees (such as a delay right area (such as a delay right area (such as a delay right))		Work Crew
			• type of trees (hard/soft wood)high risk area (such as exposed to snow, high winds, insect damage, fire)		Work Crew
	being hit by falling object		dangerous trees. Examples :		
	_	1	branches hanging in tree crown (widow		
	hit by moving vehicle		makers)		
	slips, trips, falls		o rot, scars, hollows, burns		
	electric shock		o another tree lodged in tree		
			nearby hazardous treemay uproot easily		
			extreme lean		
			thick undergrowth		
			 restricted work area 		
		A #	 wood fibre condition won't allow directional 		
			control of falling tree		
			Note: Mark dangerous trees with paint or tape. Avoid		
			manual felling wherever possible. Use machines		
			(harvester, dozer excavator or skidder (with protective		

Step 3	Personal Injury: 3/H	structure) or explosives (by licensed persons – UBE) Assemble crew. Ensure sufficient experience for type of felling activities. Allow sufficient time for job - hours/days Assess intended work area. Determine: • suitable access/egress (including heavy vehicles) • location of public/private/logging roads • suitable machinery/equipment • provision for amenities (water, toilets, shelter) • suitable communication • location of nearest medical facility/first aid requirements • level of visibility • ground conditions (type of soil, broken ground, stump holes, steep gradients, pits, drop offs, wells, etc) • conflicts with environmental issues • lighting and adequacy of artificial lighting (if relevant). Do not work in No-Go Zones of powerlines electrical power lines unless de-energised/isolated from the power supply and evidence of the continuing isolation of the power supply is obtained. Develop traffic management plan if required (working in close proximity to mobile plant or roadside works). Develop site/task specific SWMS as required. Test all communication equipment. If unsuitable, do not	2/M	Supervisor
Preparation	crushing	continue. Barricade/place signage in area.	Z/ IVI	Work Crew
	being hit by falling object	Ensure non-essential persons cannot enter. Determine suitable fall area. Ensure fall area includes		
	hit by moving vehicle	two times the length of the tree to:		
	slips, trips, falls	personsproperty		

			has chain shot guard		
			reinforced windscreen		
Step 4	Personal Injury:	3/H	Prepare tree for felling (cut off low branches).	1/L	Supervisor
Felling	crushing		Ensure no persons in fall area.		Work Crew
	being hit by falling object		Use agreed communication (eg: radio, hand signals and/or whistles).		
			Trees larger than 200mm:		
	hit by moving vehicle		• cut scarf (45 degree V shape angle between ¼ to		
	slips, trips, falls		1/3 diameter of trunk		
			scarf should face direction of fall		
			 ensure hingewood is 1/10 of tree's diameter 		
			backcut above scarf in required position. Ensure		
			more than 1/10 diameter of trunk (but never less than 50mm)		
			Trees larger than 200mm:		
			 insert wedges if required (as soon as possible 		
			after backcut)		
			drive home wedges whilst cutting		
			Once backcut taken up and tree begins to fall:		
			 use agreed communication to signal fall 		
			 remove saw and switch to off (this allows 		
			operator to hear)		
			move to planned escape route		
			 watch for falling debris 		
			 watch for kickback/bounce. 		
		V = V			
			For much larger trees – use quarter cutting techniques:		
			cut scarf as normal		
			 plan cut (mark felling cuts on map or tree) 		
			 select side of tree for first cut (if rot or lean 		

present -use that side) Back up to hingewood Tap holding wedge in into cut Make second cut on safe side. Using wedges: remove bark for wedge position, exposed solid wood drive wedge in with mallet drive wedge in as felling cuts proceed Note: Do not hit plastic wedges into closed cuts as this can shatter the wedge and cause facial injuries. For smaller trees - use split level back cut. Trees with slight lean: cut scarf as normal start backcut on leaning side narrower hingewood than normal use wedge do second cut at opposite side to lean tap wedge in whilst cutting drive wedge home - tree falls Tree with slight lean (leaning back from fall area): normal scarf and backcut place wedges in direction of lean Tree fails to fall: Cut up: • Use machine to push if possible.

Step 5	crushing	3/H	 If not, do not approach tree in direction of fall If safe, insert wedges in backcut. If too tight for wedges, rescarf and backcut in reverse direction (cut above first cut approx 1 diameter of trunk's height) Hung-up: Use machine Do not approach in direction of fall If manually – use canthook or levering device to dislodge. Note: Do not leave trees in cut-up or hung-up position unless barricading and clearly signing the area to prevent persons entering. Check area where tree fell. Ensure no overhead hazards (suspended branches, electrical cables etc) or working in 	1/L	Supervisor
Cross Cutting	being hit by falling object hit by moving vehicle slips, trips, falls electric shock		fall area. Check ground conditions. Ensure not slippery, too steep or near a drop off. Ensure sufficient room to move/work. Ensure tree is stable – chock if suitable. If position of tree is not safe –do not continue. Use equipment to move tree to safe location. Do not cross cut if tree suspended above 1.5m. Walk beside tree, not on top. Do not stand/walk on felled materials. Trim branches were required from outside –in. Watch for limbs under tension (spring back) Do not bring chainsaw blade into contact with ground. Ensure chainsaw tip does not contact limbs (kickback).		Work Crew

Note: Use caution if tree is resting on its branches. When
the branches are cut, it can unbalance the tree, which
can fall onto/crush persons.
Always work uphill to tree.
Do not stand in pathway of root plates (can spring back
into position when trunk cut).



SWMS Sign-On

We, the undersigned, confirm that we have read this Safe Work Method Statement and understood its contents. We also confirm that we are qualified to carry out the works identified in this SWMS. We understand that the controls in this SWMS must be applied as documented; otherwise work is to cease immediately.

work is to cease infinediate				
Name	Signature	Date	Time	Employer