


Candidate name:		Feedback comments made to candidate as appropriate & Result (Green or Red)		G	R
 Assessment Tasks & Criteria ECC3 No critical red mistakes and max. 8 yellow errors to succeed!				G	R
ADVANCED FELLING and SAFE WINCH SYSTEMS: RECOMMENDED MIN. GUIDE BAR SIZE 38cm one tree over 38cm and one tree over 56cm in diameter at felling height. Pre-requisite to ECC3 assessment: ECC2 Max. Time allowed - 2h30min					
ECS3-1	Take care of yourself (PPE) and others around you at work - Candidate to wear appropriate PPE for tree felling, sign RA & show ID:			G	R
1:01	Chainsaw safety trousers	c			
1:02	Chainsaw safety boots	c			
1:03	Safety helmet	c			
1:04	Eye & ear protection	c			
1:05	Gloves appropriate to task				
1:06	Non-snag outer clothing				
1:07	Personal /Squad First Aid Kit - on work site	r			
1:08	Whistle/Mobile/Radio				
ECS3-2	Planning the work including what to do in an emergency - Candidate to identify hazards relevant to the site and trees to be worked on:			G	R
2:01	Risk Assessment – walk site, look and discuss	r			
2:02	Method statement - verbal				
2:03	Emergency planning - check information				
ECS3-3	OPERATIONAL SAFETY CHECKS - Candidate checks chainsaw for condition/sharpness etc and pre-use safety:			G	R
3:01-3:07	Started and checked using safe and appropriate methods				
3:03	Function of chain brake tested, left hand guard and throttle lock	r			
ECS3-4	MEET LEGAL & SITE ENVIRONMENTAL REQUIREMENTS IN ACCORDANCE WITH NATIONAL STANDARDS - Candidate must check specifications:			G	R
4:01	Protection of fauna, flora, wildlife, waterways, site specifications etc, regards pollution/damage:	r			
4:02	Use bio-oils whenever possible				
4:03	Prevent waste or dispose of it without causing further damage, in accordance with the regulations, especially according to the standard for recyclable waste				
ECS3-5	PREPARE THE TREE FOR FELLING BY SAFE BRASHING - Candidate must remove low branches considering:			G	R
5:01/5:04-5:05	Correct "break-in", operating technique, brashing close to the stem, as appropriate to the situation				
5:02-5:03	Position of the saw in relation to the operator: Guide bar on opposite side of stem or out of line of head/neck and body when removing low branches. Saw body not above shoulder height	c			
ECS3-6	Fell a minimum of 2 trees in a safe and ergonomic way Candidate to fell an upright tree and either a backward, forward or side-weighted tree (One tree over 38cm and one tree over 56cm at felling height). A winch may be used to assist the felling if felling aids not considered sufficient. Randomly chosen for the candidate from pre-marked trees				
TREE 1, 38 - 56 cm diameter at felling height				G	R
Description: (circle)		Upright	Side weighted	Backward weighted	Forward weighted
6A:1	Trees Inspected for signs of rot or decay, loose branches & accurate evaluation of weight distribution	r			
6A:2	Correct choice of felling direction made				
6A:3	Escape routes selected and prepared	r			
Candidate to cut a sink/notch to determine felling direction using:				G	R
6B:1	Safe stance				
6B:2	Top sink cut normally between 45-60°				
6B:3	Bottom sink cut as close to ground as practicable (unless site criteria is different)				
6B:4	Cuts 20-30% into stem unless tree condition dictates otherwise				

6B:5	Sink cuts to meet accurately (not undercut).	r					
6B:6	Sink facing in the chosen direction of fall	r					
6B:7	Chain brake as appropriate						
6B:8	Boring cut made where appropriate into the middle of the sink at appropriate height, depth end width to remove center of the tree						
	Candidate has to make the main felling cut/s using a safe and effective felling method (e.g. 'Danish' / 'saved corner' cut; a bore and radial cut, a 'boring cut' technique leaving rear hold; or any other cut appropriate to the aspect of the tree).				G	R	
6C:1	correct felling method appropriate to the particular aspect of the tree.	r					
6C:2	Safe stance						
6C:3	"Ears" cut to avoid tearing, where appropriate						
6C:4	Checks site for specific safety conditions (including third parties) before the main felling cut started & shout verbal warning: no unauthorized persons within two tree lengths or directly below on steep slopes					c	
6C:5	Main felling cut no more than 10% of tree diameter above level of sink						
6C:6	Felling cuts made with "pushing chain" or "pulling" chain as appropriate						
6C:7	Safe withdrawal of the saw and chain brake used as appropriate						
6C:8	Final position of candidate is in safe position relative to the aspect of the tree	r					
6C:9	A hinge retained appropriate to the tree diameter, aspect and condition					c	
6C:10	Appropriate aid tools as required to fell tree	r					
6C:11	The operator fully uses a prepared escape route as soon as the tree begins to fall					c	
6C:12	Look up and check for loose branches, tops etc.	r					
TREE 2, Over 56 cm diameter at felling height							
Description: (circle)		Upright	Side weighted	Backward weighted	Forward weighted	G	R
6A:1	Trees Inspected for signs of rot or decay, loose branches & accurate evaluation of weight distribution	r					
6A:2	Correct choice of felling direction made						
6A:3	Escape routes selected and prepared	r					
	Candidate to cut a sink/notch to determine felling direction using:					G	R
6B:1	Safe stance						
6B:2	Top sink cut normally between 45-60°						
6B:3	Bottom sink cut as close to ground as practicable (unless site criteria is different)						
6B:4	Cuts 20-30% into stem unless tree condition dictates otherwise						
6B:5	Sink cuts to meet accurately (not undercut).	r					
6B:6	Sink facing in the chosen direction of fall	r					
6B:7	Chain brake as appropriate						
6B:8	Boring cut made where appropriate into the middle of the sink at appropriate height, depth end width to remove center of the tree						
	Candidate has to make the main felling cut/s using a safe and effective felling method (e.g. 'Danish' / 'saved corner' cut; a bore and radial cut, a 'boring cut' technique leaving rear hold; or any other cut appropriate to the aspect of the tree).					G	R
6C:1	correct felling method appropriate to the particular aspect of the tree.	r					
6C:2	Safe stance						
6C:3	"Ears" cut to avoid tearing, where appropriate						
6C:4	Checks site for specific safety conditions (including third parties) before the main felling cut started & shout verbal warning: no unauthorized persons within two tree lengths or directly below on steep slopes						c
6C:5	Main felling cut no more than 10% of tree diameter above level of sink						
6C:6	Felling cuts made with "pushing chain" or "pulling" chain as appropriate						
6C:7	Safe withdrawal of the saw and chain brake used as appropriate						
6C:8	Final position of candidate is in safe position relative to the aspect of the tree	r					
6C:9	A hinge retained appropriate to the tree diameter, aspect and condition						c
6C:10	Appropriate aid tools as required to fell tree	r					
6C:11	The operator fully uses a prepared escape route as soon as the tree begins to fall						c
6C:12	Look up and check for loose branches, tops etc.	r					

ECS3-7	REMOVE BRANCHES & CROSSCUT STEMS IN A SAFE & ERGONOMIC WAY - Safe working practice will include:			G	R
7A:1	Correct stance and support of the saw on tree and/or right leg				
7A:2	Left thumb around the front handle				
7A:3	Neither handle released while the chain is moving				
7A:4	Apply chain brake if reaching across bar and when negotiating obstacles	r			
Candidate must to avoid:				G	R
7A:5	Walking when saw is on same side of tree as operator				
7A:6	Reaching too far round with saw on far side of tree				
7A:7	Cutting towards legs or body	r			
7A:8	Using kick-back zone on tip of guide bar	r			
7A:9	Overreaching with chainsaw				
7A:10	Straddling the stem				
7A:11	Working on lower side of tree on side slopes	r			
Candidate must de-limb / brake down trees using a safe and effective method appropriate for the branching habit, cut flush with the stem:				G	R
7B:1	Sequence of cuts and position of the saw to remove branches is appropriate for the branching habit , end result flush with the stem				
7B:2	Work from top side of the tree on side slopes	r			
7B:3	Small branch wood removed before cutting main branches as appropriate				
7B:4	Work only from compression side of branches under severe 'side' tension	r			
7B:5	Compression and tension forces are assessed and appropriate cuts used				
7B:6	Heavy branches gradually reduced in length				
7B:7	Work inwards carefully to deal with ascending and overhanging branches				
7B:8	Do not work under overhanging limbs	r			
7B:9	Retain main supporting branches on stem as appropriate				
7B:10	Roll the trunk to bring branches over shoulder height to a safe cutting level as appropriate				
Candidate to remove the top of the tree in accordance with site specifications:				G	R
7C:1	Cut top at appropriate diameter				
7C:2	Remove top with a safe method of cutting				
7C:3	Dispose of top according to Job Specification				
Candidate to turn tree and remove 'under' branches:				G	R
7D:1	The stem turned using appropriate techniques &/or aid tools				
7D:2	Using the stem for protection when removing remaining branches				
7D:3	Using a safe and effective method to sever remaining branches				
7D:4	All branches removed flush with the stem				
Crosscut pole length timber over guidebar length to a specification.				G	R
7E:1	Safe stance; Head/neck are not allowed across of line of chain (unless checking the line of the cuts with bar tip in full view)	c			
7E:2	Reducing cuts as appropriate				
7E:3	Correct boring technique				
7E:4	Correct angle and depth of cuts				
7E:5	Compression cut first as appropriate				
7E:6	Correct location of final (tension) cut				
7E:7	Correct use of throttle				
7E:8	Correct accuracy of cuts				
7E:9	Correct use of chain brake				
7E:10	Accuracy of measurement within reasonable tolerance				
7E:11	Appropriate aids for rolling / lifting				

ECS3-8	Candidate has to take down a hung-up tree in a safe & ergonomic way with a winch <u>IF TREE GOT HUNG-UP DURING FELLING.</u> <u>IF A TREE IS NOT HUNG-UP, A SAFE WINCH SYSTEM MUST BE SET UP FOR ASSISTED FELLING</u> of a tree to prove the candidate's skills and correct choice of components: (winch can be hand or machine operated but must be adequate for the size of tree. all components, including anchor points, must be fit for purpose and compatible with the system used.)		
	Candidate to prepare the site to facilitate take down procedure or assisted felling:		G R
8A:1	Assess position of tree and check condition of hinge		
8A:2	Remove debris and obstacles from take down route		
8A:3	Decide on the final felling direction		
8A:4	Prepare new escape routes as appropriate	r	
8A:5	Select and position winch equipment as required		
8A:6	No unauthorized person within two tree lengths or directly below on steep slopes	c	
	Candidate to partially sever the hinge of hung-up tree with the chainsaw using:		G R
8B:1	Correct stance		
8B:2	Safe position to side of tree	r	
8B:3	Position and angle of cuts for removal of appropriate part of the hinge		
8B:4	Safe withdrawal of the saw leaving 10-20% retaining hinge either side		
	Candidate to set up winch taking into consideration:		G R
8C:1	Stump Shaped (if applicable)		
8C:2	Supporting remnants of hinge removed carefully	r	
8C:3	Position of strop on the butt		
8C:4	Attachment of winch cable to strop		
8C:5	Position and anchorage of winch, all components, including anchor points, must be fit for purpose and compatible with the system used	r	
8C:6	Communication with winch operator is clearly established (if applicable)	r	
8C:7	Gloves used if cable handled		
	Candidate to safely operates the winch:		G R
8D:1	Position of winch operator		
8D:2	Winch is operated until tree falls		
8D:3	Reposition strop at butt or reposition anchor as appropriate		
8D:4	Offset winch with e.g. a snatch block on steep slopes or around obstacles if appropriate		
8D:5	Use escape route(s)	r	
8D:6	Tree is winched until stable condition on the ground		
8D:7	Strops removed, checked and stowed		
8D:8	Winch rope rewound correctly		
8D:9	Site left safe & tidy		

DATE & LOCATION:			
ASSESSMENT	Time Start:	Time stop:	DURATION (min):
CANDIDATE (PRINT NAME, ID NUMBER & SIGN):			
OVERALL RESULT:	COMPETENT	Not yet COMPETENT	nr.of WARNINGS:
Candidate comment on feedback and result:			
ASSESSOR (PRINT NAME, ID NUMBER & SIGN):			