


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. 6 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 <u>PPE for tree felling</u> , sign RA & show ID:			G	R
1:01-1:04	Chainsaw safety trousers, chainsaw safety boots, eye & ear protection, safety helmet	c			
1:05	Gloves appropriate to task (e.g. steel cable manipulation)	r			
1:06	Non-snap 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	Emergency planning - check information	r			
2:02	Method statement - verbal	r			
2:03	Risk Assessment – walk site, look and discuss	r			
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 and alkylate fuel 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	CONSTANT SAFE AND ERGONOMIC SAWING POSITION AND METHOD - candidate must be able to perform all sawing operations in a safe and ergonomic manner, taking into account:			G	R
5:01	Right hand on the rear handle when sawing	c			
5:02	Left thumb always around top handle, head/neck are not allowed across of line of chain (unless checking the line of the cuts with bar tip in full view) when sawing	r			
5:03	Saw body not above shoulder height	c			
5:04	Chain brake used appropriately: according to national regulations, e.g. when walking with the engine running, if the saw has to be put down while moving cut material or before taking a hand off the saw	r			
5:05	Stable and ergonomic position	r			
5:06	Safe position to side of tree/stem in all activities	c			
ECS3-6	PREPARE THE TREE FOR FELLING BY SAFE BRASHING - Candidate must also remove low branches considering:			G	R
6:01	Correct "break-in" (remove low-hanging branches to create a passage to the stem) and brashing close to the stem moving systematically anti-clockwise				
6:02	Position of the saw in relation to the operator, bar on opposite side of stem or out of line of head/neck and body (operating technique)	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			G	R
TREE 1, 38 - 56 cm diameter at felling height Description: (circle) Upright Side weighted Backward weighted Forward weighted				G	R
7A:1	Trees Inspected for signs of rot or decay, loose branches & accurate evaluation of weight distribution	r			
7A:2	Correct choice of felling direction made	r			
7A:3	Escape routes selected and prepared	r			

	Candidate to cut a notch to determine felling direction using:				G	R
7B:1	Top notch cut normally between 45-60°					
7B:2	Bottom notch cut as close to ground as practicable (unless site criteria is different)					
7B:3	Cuts 20-30% into stem unless tree condition dictates otherwise					
7B:4	Notch cuts to meet accurately (not undercut)	r				
7B:5	Notch facing in the chosen direction of fall	r				
7B:6	Boring cut made where appropriate into the middle of the notch 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
7C:1	Correct felling method appropriate to the particular aspect of the tree.	r				
7C:2	Buttresses removed &/or "ears" cut to avoid tearing, as appropriate					
7C:3	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				
7C:4	Main felling cut no more than 10% of tree diameter above level of notch					
7C:5	Felling cuts made with "pushing chain" or "pulling" chain as appropriate					
7C:6	Safe withdrawal of the saw and chain brake used as appropriate					
7C:7	Final position of candidate is in safe position relative to the aspect of the tree	r				
7C:8	A hinge retained appropriate to the tree diameter, aspect and condition	c				
7C:9	Appropriate aid tools as required to fell tree	r				
7C:10	The operator fully uses a prepared escape route as soon as the tree begins to fall	c				
7C:11	Look up and check for loose branches, tops etc.	r				
	TREE 2, Over 56 cm diameter at felling height				G	R
	Description: (circle) Upright Side weighted Backward weighted Forward weighted					
7A:1	Trees Inspected for signs of rot or decay, loose branches & accurate evaluation of weight distribution	r				
7A:2	Correct choice of felling direction made	r				
7A:3	Escape routes selected and prepared	r				
	Candidate to cut a notch to determine felling direction using:				G	R
7B:1	Top notch cut normally between 45-60°					
7B:2	Bottom notch cut as close to ground as practicable (unless site criteria is different)					
7B:3	Cuts 20-30% into stem unless tree condition dictates otherwise					
7B:4	Notch cuts to meet accurately (not undercut)	r				
7B:5	Notch facing in the chosen direction of fall	r				
7B:6	Boring cut made where appropriate into the middle of the notch 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
7C:1	Correct felling method appropriate to the particular aspect of the tree.	r				
7C:2	Buttresses removed &/or "ears" cut to avoid tearing, as appropriate					
7C:3	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				
7C:4	Main felling cut no more than 10% of tree diameter above level of notch					
7C:5	Felling cuts made with "pushing chain" or "pulling" chain as appropriate					
7C:6	Safe withdrawal of the saw and chain brake used as appropriate					
7C:7	Final position of candidate is in safe position relative to the aspect of the tree	r				
7C:8	A hinge retained appropriate to the tree diameter, aspect and condition	c				
7C:9	Appropriate aid tools as required to fell tree	r				
7C:10	The operator fully uses a prepared escape route as soon as the tree begins to fall	c				
7C:11	Look up and check for loose branches, tops etc.	r				
ECS3-8	REMOVE BRANCHES & CROSSCUT STEMS IN A SAFE & ERGONOMIC WAY - Safe working practice will include:				G	R

8A:1	Correct stance and support of the saw on tree and/or right leg		
8A:2	Apply chain brake or switch off saw if reaching across bar, clearing branches or when negotiating obstacles	r	
Candidate must to avoid:			G R
8A:3	Walking with a chain in motion when saw is on same side of stem as operator	r	
8A:4	Overreaching with chainsaw or reaching too far round with saw on far side of tree		
8A:5	Cutting towards legs or body	r	
8A:6	Using kick-back zone on tip of guide bar	r	
8A:7	Straddling the stem		
8A:8	Working on lower side of tree on side slopes unless tree is restrained	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
8B:1	Sequence of cuts and position of the saw to remove branches is appropriate for the branching habit , end result flush with the stem		
8B:2	Work from top side of the tree on side slopes	r	
8B:3	Work only from compression side of branches under severe 'side' tension	r	
8B:4	Compression and tension forces are assessed and appropriate cuts used		
8B:5	Heavy branches gradually reduced in length		
8B:6	Work inwards carefully to deal with ascending and overhanging branches		
8B:7	Do not work under overhanging limbs	r	
8B:8	Retain main supporting branches on stem as appropriate		
8B:9	Manipulate 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
8C:1	Cut top at appropriate diameter		
8C:2	Remove top with a safe method of cutting		
8C:3	Dispose of top according to Job Specification (e.g. bark beetle, nutrition of soil, etc.)		
Candidate to turn tree and remove 'under' branches:			G R
8D:1	The stem turned using appropriate techniques &/or aid tools		
8D:2	Using a safe and effective method to sever remaining branches		
8D:3	All branches removed flush with the stem		
Crosscut pole length timber over guidebar length to a specification.			G R
8E:1	Reducing cuts as appropriate		
8E:2	Correct boring technique		
8E:3	Correct angle and depth of cuts		
8E:4	Compression cut first as appropriate		
8E:5	Correct location of final (tension) cut		
8E:6	Correct use of throttle		
8E:7	Correct accuracy of cuts		
8E:8	Accuracy of measurement within reasonable tolerance		
8E:9	Appropriate aids for rolling / lifting		
ECS3-9	Candidate must set up and use a winch system for assisted felling of a tree or to take down a hung-up tree in a safe & ergonomic way with a winch. This to prove the candidate's skills and correct choice of components & positions: (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 must be able to prepare the site with winching equipment for assisted felling or to facilitate take down procedure:			G R
9A:1	Assess position of tree and/or check condition of hinge if tree got hung-up	r	
9A:2	Remove debris and obstacles from felling / takedown route		
9A:3	Select a felling / takedown direction appropriate to tree form and site conditions	r	
9A:4+11	Select and prepare escape route(s), determine risk zones for operators and exclusion zones for 3rd parties according to national regulations or EFESC guideline on CAF	c	
9A:5 -> 9A:10	Position and anchorage of winch, all components, including anchor points, must be fit for purpose and compatible with the system used	r	
9A:12	Deploy a competent banksman (lookout) where appropriate	r	

9A:13	Agree clear communication protocols for assisted felling / takedown operation	r		
9A:14	Test the winch setup with temporary pre-tension to ensure that all components, including the anchor points, are securely in place and functioning correctly.	r		
9A:15	No unauthorized person within two tree lengths or directly below on steep slopes	c		
Candidate to prepare a tree for cable assisted felling:				G R
9B:1	Safe position to side of tree	r		
9B:2	Make felling cuts using (where appropriate) a holding cut method &/or wedge as a failsafe for the assisted felling	r		
9B:3	Chainsaw operator moves into safe zone	c		
9B:4	Ensure command to winch is clearly given to winch operator (or operate winch in safe zone for 1 person system)	r		
Candidate to prepare a hung-up tree for take-down operation:				G R
9C:1	Safe position to side of tree	r		
9C:2	Safe withdrawal of the saw leaving 10-20% retaining hinge either side	r		
9C:3	Position or reposition strop (or chain) on the butt or anchor as appropriate	r		
9C:4	Attachment of winch cable to strop or chain	r		
9C:5	Supporting remnants of hinge removed carefully (and/or stump Shaped if applicable)	r		
9C:6	Chainsaw operator moves into safe zone	c		
9C:7	Ensure command to winch is clearly given to winch operator (or operate winch in safe zone for 1 person system)	r		
Candidate to safely operates the winch:				G R
9D:1	Position of winch operator	r		
9D:2	Winch is used until tree falls			
9D:3	Use escape route(s)	r		
9D:4	Tree is winched until stable condition on the ground			
9D:5	Strops removed, checked and stowed			
9D:6	Winch rope rewound correctly, retrieve, check and stow winching equipment			
9D:7	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):