CITY & GUILDS NPTC LEVEL 2 AWARD IN THE SAFE USE OF A FORESTRY CLEARING SAW (QCF) 601/2268/7



VERSION 2

QUALIFICATION GUIDANCE

Integrated Assessment

Essential Qualification Information

Not to be used by the Candidate during Assessment

You will require some of this information to accurately complete the Record of Assessment (ROA)

Qualification Group No	0 0 2 0	Forestry and Arboriculture Level 2
Qualification Programme No	0 0 2 0 - 5 5	L2 Award in The Safe Use of a Forestry Clearing Saw
Unit(s)	2 2 1	Prepare and Operate a Clearing Saw
Learning Time (LT)	2 2 1	LT 8 (1 Credits) (* see note on page 2)
Recommended Assessment Duration		1.5 – 3 hours per Candidate

City and Guilds Level 2 Award in the Safe Use of a Forestry Clearing Saw (QCF) Qualification Guidance

Introduction

The scheme will be administered by City & Guilds

City & Guilds will:

Publish - Scheme regulations - Qualification guidance - Training materials - Trainers support materials Approve centres to co-ordinate and administer the scheme Set standards for the training of Verifiers and Assessors Recruit, train and deploy Verifiers Issue certificates to successful Candidates

The Qualification

The qualification will be awarded to Candidates who achieve the required level of competence in the units to which their certificate relates.

What is the Qualifications and Credit Framework?

OFQUAL have introduced the Qualifications and Credit Framework (QCF) to increase flexibility for learners and employers. Qualifications may be built up from individual units according to rules of combination. The units are derived from the National Occupational Standards, which are compiled by Lantra SSC, the Sector Skills Council for the Land-based industries.

Instruction

Attendance at a course of instruction is not a pre-requisite for an application for an assessment but potential Candidates are strongly advised to ensure that they are up to the standards that will be expected of them when they are assessed.

* Learning Time (LT)

Learning Time (LT) is a better indicator of the time requirement needed for a candidate to achieve competence in this qualification. It has replaced Guided Learning Hours (GLH) which are defined as "*tutor or teacher led hours*". LT is defined as "a notional measure of the learning time a typical learner might be expected to take to complete and achieve all learning outcomes". It takes into account prior learning and encompasses: formal learning (including classes, tutorials, on line tuition), coaching and mentoring, practical work, relevant IT activity, information retrieval, expected private study and revision, work-based activity which leads to assessment, practice to achieve competence, formative assessment, programme planning and feedback.

Access to Assessment

Assessment centres will be responsible for arranging assessment on behalf of the Candidate.

The minimum age limit for Candidates taking Certificates of Competence is 16 years. There is no upper age limit.

The assessment consists of one compulsory unit:

Unit 221

Prepare and Operate a Clearing Saw

Outcomes

- 1. Know the health and safety requirements for operating a clearing saw
- 2. Be able to carry out a risk assessment on a site
- 3. Be able to prepare the equipment and site for clearing saw operations
- 4. Be able to operate a clearing saw
- 5. Carry out maintenance on a clearing saw

Candidates must successfully achieve all assessment activities in the above unit.

There are no endorsements for this Award.

Quality Assurance

Verification is a process of monitoring assessment; it is an essential check to confirm that the assessment procedures are being carried out in the way City & Guilds has laid down. The overall aim of verification is to establish a system of quality assurance that is acceptable in terms of both credibility and cost effectiveness.

Approved Assessors will be subject to a regular visit by the verifier at a time when assessments are being undertaken.

A selection of assessment reports completed by the Assessor will be evaluated by a City & Guilds approved verifier.

Compliance with the verification requirements is a pre-requisite for Assessors remaining on the list of approved Assessors.

After assessment has been completed the Qualification Guidance is to be forwarded to the centre and retained by the centre until after the annual centre visit has taken place by a Quality Systems Consultant (QSC).

As part of the quality assurance process, a minimum of two observations are required to be undertaken for each qualification that is assessed by a Trainer/Assessor. These will be carried out by an internal Verifier appointed by the Centre. One observation will be conducted in the presence of the Quality Systems Consultant. In respect of risk management, there is an expectation that additional observations up to a maximum of four will be carried out for the inexperienced or newly qualified Trainer/Assessor or Assessors.

Performance Evaluation

The result of each assessment activity is evaluated against the following criteria:

- M = Met Meets or exceeds the assessment criteria by displaying a level of practical performance and/or underpinning knowledge. If the Criterion has been MET, a tick ☑ is to be put in the box provided in the bottom right-hand column of each section.
- NM = Not Met Does not satisfy the requirements of the assessment criteria, being unable to perform the practical task satisfactorily or safely or being deficient in underpinning knowledge. If the Criterion is NOT MET, a cross ⊠ is to be put in the box provided in the bottom right-hand column of each section.

Appeals and Equal Opportunities

Centres must have their own auditable, appeals procedures. If a Candidate is not satisfied with the examination conditions or a Candidate feels the opportunity for examination is being denied, the Centre Manager should, in the first instance, address the problem. If, however the problem cannot be resolved, City & Guilds will arbitrate and an external verifier may be approached to offer independent advice. All appeals must be clearly documented by the Centre Manager and made available to the external verifier or City & Guilds if advice is required.

Should occasions arise when centres are not satisfied with any aspect of the external verification process, they should contact Verification Services at City & Guilds.

Access to the qualification is open to all, irrespective of gender, race, creed, age or special needs. The Centre Manager should ensure that no learner is subjected to unfair discrimination on any grounds in relation to access to assessment and to the fairness of the assessment. QCA requires City & Guilds to monitor centres to check whether equal opportunities policies are being adhered to.

Additional Information

May be sought from the relevant manufacturer's operator manuals or any other appropriate training or safety publication.

Questions should be related to the background or employment aspirations of the candidate and, where possible, product labels used should be representative of products typically used in that sector or industry.

Candidates who undertake this assessment and have met the requirements are reminded of their legal obligation to receive/undertake appropriate additional training in the use of any equipment that differs from that used during the assessment, but which they are nevertheless qualified to use.

Assessment Guidance for the Trainer/Assessor

This qualification can be assessed by a Trainer who has trained the Candidate (a Trainer/Assessor) or by a third party (an Assessor) not directly involved with training of the Candidate providing they are suitably qualified and meet the requirements of the awarding body. Please see City & Guilds Centre Manual for guidance.

It is envisaged that assessment will be carried out after all of the training has been completed. However assessment may take place at intervals after each 'period' of training and may be effectively integrated into the training programme. The Candidate must be informed when assessment is taking place in terms of when formal assessment commences and when its ceases. It is not permissible to assess whilst training is being carried out. Assessment must be a separate activity.

Trainer/Assessors are reminded that assessment is a formal process. Assessment must be carried out using the Qualification Guidance. All relevant assessment criteria must be assessed against the criteria as specified in the Qualification Guidance. Assessment will be carried out by direct observation and by oral questioning of the Candidate. Where a specific number of responses are required these may include other suitable answers not specified if they are deemed to be correct by the Assessor. The performance of the Candidate is to be recorded on the Qualification Guidance as directed by completing the tick boxes. Space has been provided on the Qualification Guidance for the person assessing to record relevant information which can be utilised to provide feedback to the Candidate. Trainer/Assessors are reminded that feedback from the Candidate is required on the Record of Assessment that is sent to City & Guilds as part of the quality assurance process. After assessment has been completed the assessment schedule is to be forwarded to the centre and retained by the centre until after the annual centre visit has taken place by a Quality Systems Consultant (QSC).

The Candidate may only have a maximum of 3 attempts. Re-assessment cannot take place until further training has been provided.

Assessment Guidance for Candidate

A list of registered assessment centres is available from City & Guilds Land Based Services. (www.nptc.org.uk)

Assessment is a process by which it is confirmed that the candidate is competent in the unit(s) within the award to which the assessment relates. It is the process of collecting evidence about his/her capabilities and judging whether that evidence is sufficient to attribute competence.

The Candidate must be registered through the City & Guilds approved assessment centre for this qualification prior to the assessment.

The results of the assessment will be recorded on the Record of Assessment form (ROA).

The qualification guidance contains criteria relating to:

- Observation of practical performance
- Assessment of underpinning knowledge

Range of vegetation

Single cut – up to 50mm Over lap cut – 50mm – 120mm Sink cut – over 120mm

Chainsaw Safe Practice

At all times during the assessment, equipment must be used in accordance with industry good practice, whatever the task being carried out.

- Assessors must hold a current 'First Aid at Work' Certificate.
- All chainsaws used in assessments must comply with relevant Arboriculture and Forestry Advisory Group (AFAG) guidance and HSE Chainsaws at Work INDG317(rev1), in terms of safety features, and be a model and size suited to the task(s) required.
- 4. Recommended guide bar lengths should be observed, although variations may be accepted at the discretion of the assessor where this is appropriate to the task.
- 5. Candidates should be familiar with the machinery, equipment and tools that they are going to use.
- 6. During chainsaw based assessments a spare working chainsaw must be available.
- 7. Appropriate Personal Protective Equipment (PPE) must be worn at all times by both the candidate and the assessor. All PPE used must comply with relevant AFAG guidance, industry good practice, Health and Safety Executive publications and current legal requirements in terms of specification and use.
- A First Aid kit meeting current regulations, of the appropriate size for the number of persons on site, must be available, along with appropriate fire fighting and suitable welfare facilities e.g. hand cleansing wipes.
- 9. The use of personal first aid kits must be line with current industry good practice.
- 10. The assessor must ensure a site specific risk assessment has been carried out, sufficient control measures implemented and appropriate emergency procedures recorded. All recorded risk assessment information should be clearly legible and accessible to candidates and completed for all locations where assessment activities are scheduled to take place.
- 11. Manual handling techniques must comply with current legislation and industry good practice.
- 12. Any necessary permission must have been granted, and notifications made as appropriate.
- 13. All equipment being used for this assessment must comply with relevant legislative requirements.
- 14. Information may be sought from the relevant operator manuals or any other appropriate training or safety publication.
- 15. The current regulations for transport, handling and storage of fuel and oils must be complied with.
- 16. Provision must be made to avoid the risk of environmental pollution.
- 17. It is the responsibility of the assessor and the candidate to ensure that any additional requirements and provisions are met as relevant to this gualification.
- 18. At all times during the assessment, candidates must act in a way so as not to endanger themselves, the assessor or any other person or equipment. Work must be carried out to achieve the requirements of the assessment criteria in accordance with all relevant and current legislation and good practice guidance.
- 19. If required, relevant records must be accurately kept.
- 20. Appropriate steps should be taken to maintain effective teamwork in respect of other persons on site during the assessment.
- 21. Any appropriate item of machinery complying with current legal requirements is acceptable for the assessment, provided it is suitably equipped for **all** assessment activities to be carried out.
- All equipment being used for this assessment must comply with the relevant requirements of the Provision and Use of Work Equipment Regulations (PUWER) 1998.
- 23. A breach of Health and Safety that puts any person at risk during the assessment process will result in the assessment being terminated and the Candidate not meeting the required standard.

This may include taking steps to ensure effective communication and safety precautions.

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City & Guilds is a registered charity established to promote education and training

Candidate A Name:		Name:		Da	te:	Start Time:	Dura	Duration:				
Candidate	В	Name:		Da	te:	Start Time:	Duration:					
Candidate	C	Name:		Da	te:	Start Time:	Dura	atior	ו:			
Candidate	D	Name:		Da	te:	Start Time:	Dura	atior	ו:			
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C A	AND B	DIDA ⁻	TE D	
2.1	ass wor	ntify hazards and risks ociated with the king area and the posed work	Three hazards and risks w the working area Three hazards and risks w the proposed work		Identify hazards (any	thing with the potential to can might be harmed and how),						
						Met√ Not M						
1.2		lain the risk essment process	Five steps to risk assessm	ent	five steps: identify the haz decide who mig	process may contain the foll ards ght be harmed and how sks and decide on precautior	-					
					• record the findi	ngs and implement them						
					 review and upc 	late the assessment as nece	essary					
						Met√ Not M	Met X					
1.3	pro	te emergency planning cedures relevant to the k area	State five		include:	es relevant to a work site ma	ау					
					location namegrid reference							
					 glid reference designated me 	eting place						
					 site location na 	01						
					nearest access	point						
					 street name/dis 	strict						
					 type of access wheel drive) 	(public road/light vehicles, fo	our-					
						oter landing area						
					·	of nearest doctor						
					hospital and ph		y					
					_	r contact details						
						ict number/mobile number						
						Met√ Not M	Met X					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE		ASSESSMENT ACTIVITIES	C.	AND B	IDA C	TE D
	State legislation covering	State five by name with a	May	include the following:			Ŭ	
1.1	clearing saw operations	basic outline of the implication on clearing saw operation	•	The Health & Safety at Work Act 1974 – specified duties under the act as an employee				
			•	The Management of Health and Safety at Work Regulations 1999 – a risk assessment must be carried for all activities				
			•	Personal Protective Equipment Regulations 1992 – PPE must be supplied and worn				
			•	Manual Handling Operations Regulations 1992 – not to manually handle, use safe lifting techniques				
			•	The Control of Vibration at Work Regulations 2005 – to reduce the risk to health from vibrations				
			•	Provision and Use of Work Equipment Regulations (PUWER) 1998 – requires that regular checks are made				
			•	Noise at Work Regulations 2005 – hearing protection must be worn over 85db				
			•	COSHH - hazard awareness of toxic vegetation/chemicals				
			•	Countryside and Wildlife Act 1981 – operation carried out at times to minimise the impact on wildlife				
			•	RIDDOR - reporting of dangerous occurrences and accidents				
				Met√ Not Met X				
	Identify safety features of	Identify all safety features	Safe	ty features may include:				
2.2	the clearing saw		•	clearly marked on/off switch				
			•	safety throttle				
			•	hand, eye, ear defender symbol				
			•	safe working distance symbol				
			•	guards				
			•	anti vibration system				
			•	exhaust fumes directed away from the operator				
			•	harness attachment points				
				Met√ Not Met X				
	Explain the function and	Carry out and explain the	Air f	ilter				
5.1	maintenance requirements of individual components	maintenance of the clearing sawair filter	•	filter prevents debris entering carburettor and needs to be clean to maintain air/fuel ratio and therefore performance				
	Carry out the maintenance	 spark plug 	•	excess debris removed from around filter prior to				
5.3	on the clearing saw	 cooling system exhaust system 	•	removal filter removed, protecting carburettor				
		 exhaust system starter mechanism 	•	filter cleaned, appropriate to condition				
		• fuel filter	•	filter refitted correctly				
		 power unit/covers angle drive	Spar	rk plug				
		• blade	•	angine cover and shark plug removed				
			•	engine cover and spark plug removed plug cleaned or replaced as necessary				
			•	wear/damage assessed visually				
			•	gap size checked and set if necessary				
			•	if fuel rich, dark brown to black				
			•	if fuel starved, light brown to white				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C. A	AND B	IDA C	TE D
			Cooling system				
Cont 5.1			 keeps the engine cool and prevents the engine from overheating. Maintenance may include inspection, and cleaning 				
			remove covers where appropriate and remove excess debris from fins and cylinder				
5.3			Exhaust system				
			 directs fumes away from the operator, maintenance may include inspection, security of nuts/bolts and removal of residue check all nuts and bolts for security 				
			 remove excess residue from the silencer 				
			Recoil starter				
			starter cover removed and ventilation slots cleared				
			cord inspected for wear				
			cord and coil spring released and re-tensioned				
			pull toggle checked for security				
			 slack spring cord does not fully retract 				
			• over tight spring binds before cord fully extended				
			Cord wears at				
			base of toggle				
			attachment to pulley wheel				
			Fuel filter				
			fuel cap removed				
			filter located and removed from tank using appropriate tool				
			condition of filter determined				
			• cleaning procedures using non flammable detergents followed by rinsing and drying or replacement as appropriate				
			Power unit/covers				
			debris removed from fins/air intake				
			• external screws, nuts and bolts present and				
			secure security of muffler				
			Angle drive				
			in accordance with manufacturers recommendations				
			access plug removed (where applicable)				
			lubricant checked (where applicable)				
			Blade				
			 secure blade using appropriate method (locking pin, spanner etc) 				
			 remove retaining nut (I/h thread) and blade assembly 				
			check:				
			length of teeth damage to teeth				
			 damage to teeth select shortest tooth and sharpen to 				
			manufacturers specification				
			select and set callipers to obtain even filing size of all teeth				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES		C. A	AND B	IDA C	TE D
NOMBER	CITLINA	GOIDANGL	check:		A	D	C	
Cont			 angle and shape of tooth is ac 	centable				
5.1			 sharpness of cutting edge 	ceptable				
			gullet depth					
			 use of setting tool 					
5.3			Re-check and adjust teeth (if necessary)					
			 inspect blade for cracks and other 	damage				
			clean shaft					
			 re-fit blade, washer and lock nut 					
			 replaced according to manufacture recommendations 	er's				
			 remove locking pin (if used) 					
			 blade sharpening on site to include 	o.				
			 cut a vertical slot in a standing ste 					
			been cut off with an angled cut, ap 1.1 metre from the ground. be awa making sure you have a firm grip a while cutting the slot	proximately are of kickback				
			 begin the vertical notch cut 					
			 complete the vertical notch cut up 	to the gearbox				
			housing					
			 turn the saw to the side a little to c on the blade. the blade should be be able to turn to carry out the sha teeth 	secure but still				
			sharpen the blade to manufacture	rs				
			recommendations					
			Μ	et√ Not Met X				
5.4	Reassemble the clearing saw to a functional and operational standard	Assessor to carry out a physical inspection of the clearing saw following	 upon completion of maintenance a clearing saw is reassembled in line 					
		maintenance	operators handbook M	let√ Not Met X				
	Use Personal Protective	Assessor to observe	As per manufacturers recommendations	, PPE should				
3.3	Equipment (PPE) and		nclude appropriate:					
	machine safety features for clearing saw operations		 safety helmet 					
	olouning out operatione		 eye protection 					
			 ear defenders 					
			gloves					
			non snag clothing					
			 trousers to protect from flying debt 	ris				
			 safety boots with protective toecap 	DS				
			 personal first aid kits should be av 	ailable				
			 additional PPE as required by the assessment 					
		Assessor to observe	Harness fitting and adjustment					
			 length of shoulder straps 					
			 length of side straps 					
			position of chest plate					
			 position of hip guard 					
			 machine well balanced 					
1	1		 working height achieved 					
			handle har est		_			_
			handle bar set					
				et√ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C. A	AND B	IDA C	TE D
-	Carry out pre start checks	Assessor to observe	Pre-start checks may include:				Ť
3.1	on the clearing saw		 all safety features are present and properly adjusted 				
			 all controls are working correctly and are identified 				
			there are no loose or broken parts				
			• the fuel tank is filled wit the correct fuel				
			mixture				
			Met√ Not Met X				
2.3	Carry out site inspection	Assessor to observe	Ensure that:				
2.5			walk the site and remove or mark hazards				
			 confirm the condition of the site as acceptable for the operation to take place 				
			 report to the appropriate person if the site condition is unsuitable 				
			 set out warning signs and barriers (if 				
			appropriate) to advise or exclude public/animals				
			implement suitable controls to protect operator				
			Met√ Not Met X				
E 0	State the safety requirements for operating	State all	Safety requirements may include:				
5.2	a clearing saw		wear protective clothing at all times				
			ensure personal safety				
			ensure safety of bystanders				
			maintain minimum safe working distance of twice				
			the length of the longest product or a minimum of 15m at all times				
			Met√ Not Met X				
	Carry out safe starting and		Safe starting may include:				F
3.2	operational checks						
			 remove and retain guard machine placed in a secure position on the 				
			ground				
		State the procedure if blade	set the controls as per manufacturers				
		is not stationary at idle	recommendationsstart engine				
			 check that blade is stationary at idling speed 				
			 adjust the idle speed according to manufacturers 				
			recommendations				
			Met√ Not Met X				
	Carry out the operation	Operate the clearing saw as	Operation of the clearing saw to include the following:				
4.1	using a clearing saw	appropriate to work situations covering at least 30m ²	 select appropriate method(s) 				
		One handed cutting is	use of throttle				
		acceptable providing the	ensure blade speed when cutting is appropriate				
		machine is attached to the operators harness and the	use hips and legs to work machine				
		handle bar is effectively braced against the body.	assessment of stem lean				
			• use of blade sector (left and right)				
		Techniques demonstrated must include:	use of blade rotation				
		Single cut – up to 50mm	identify kick out sector				
		Over lap cut – 50mm – 120mm	clear jammed blade				
		Sink cut – over 120mm	clear vegetation insert sink cut				
		Conventional or inverted	insert felling cut				
		sinks may be used according to site conditions	 stump height 				
			 stop engine and replace guard immediately after 				
			use				
			Met√ Not Met X				

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CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA	ΓE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
4.2	Carry out post operational checks	Assessor to observe	Ensure that:				
			site is safe and secure				
			debris cleared according to site specification				
			breakdown the site				
			inspect and clean clearing saw				
			Met√ Not Met X				

Candidate A	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (<i>state reason(s))</i>	Tick ✓
ပိ	Signed:	Date:		
Candidate B	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓
	Signed: D	Date:		
	Candidate has met all of the assessment criteria	Tick	The Candidate has not met all of the assessment criteria; (<i>state</i>	Tick

Candidate C	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓
	Signed: D	ate:		

	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick √
Candidate D				
	Signed:	Date:		

For use by Internal Verifier ONLY if the assessment process was internally verified (Internal Verifier to complete ONE of the boxes below)

I observed an assessment process taking place and I am satisfied that the assessment was conducted in line with the qualification requirements and that the judgement of the Assessor was appropriate.	Tick ✓
I observed an assessment process taking place. The following were noted as areas of concern.	Tick ✓
Signed: Date:	<u>.</u>