# CITY & GUILDS NPTC LEVEL 2 AWARD IN CROSS-CUTTING TIMBER USING A CHAINSAW QAN 600/6428/6



# **QUALIFICATION GUIDANCE**

# **Independently Assessed**

# **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 & Arboriculture Level 2
Qualification Programme No	0 0 2 0 - 0 2	Award In Cross-Cutting Timber Using a Chainsaw
Unit	2 0 2	Cross-cut timber using a chainsaw
Guided Learning Hours	2 0 2	GLH 8 (Credit Value 1)
Total Qualification Time		10 hours
Recommended Assessment Duration		1.0 – 1.5 hours per Candidate
Pre-Requisite Units	2 0 1	Carry out maintenance of chainsaw and cutting system

Version and date	Change detail	Section
1.2 November 2017	Added TQT details Deleted QCF	Qualification at a glance, Structure
		Throughout

# City and Guilds NPTC Level 2 Award in Cross-cutting Timber using a Chainsaw 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.

#### 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.

### **Total Qualification Time**

Total Qualification Time (TQT) is the total amount of time, in hours, expected to be spent by a Learner to achieve a qualification. It includes both guided learning hours (which are listed separately) and hours spent in preparation, study and assessment.

#### 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 is one Mandatory unit:

Unit 202 Cross-cut Timber Using a Chainsaw

Outcomes

- 1. Be able to work safely (1) (Criteria 1.1 1.4)
- 2. Be able to cross-cut timber using a chainsaw (2) (Criteria 2.1 2.8)
- 3. Know relevant health and safety legislation and industry good practice (3) (Criteria 3.1 3.4)
- 4. Know how to cross-cut timber using a chainsaw (4) (Criteria 4.1 4.6)

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

## **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).

#### 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 left-hand column.
- 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 left-hand column.

## **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 Assessor**

This qualification can only be assessed by an Assessor who is suitably qualified and meets the requirements of the awarding body. The Assessor must be independent and cannot have been involved with the training of the Candidate. Please see City & Guilds Centre Manual for guidance.

The Candidate is to be notified of the place and time of assessment and when formal assessment commences and ceases.

Assessors are reminded that assessment is a formal process and that assessment must be carried out using this Qualification Guidance. All relevant assessment criteria must be assessed against the criterion 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 theses 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. After assessment has been completed the Qualification Guidance document is to be retained by the assessor and provided if required by a Quality Systems consultant (QSC).

### Assessment Guidance for Candidate

A list of registered assessment centres is available form 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

# Assessment and Site Requirements:

- The candidate should be equipped with the correct tools if required for any remedial maintenance activity.
- The candidate should be equipped with sufficient fuel and oil, appropriate to the make and model of the chainsaw.
- The candidate should be equipped with any necessary aid tools for the lifting, carrying or movement of timber.
- Sufficient timber of suitable dimensions (200mm-380mm/8-15" diameter) and finish appropriate to the candidate normal working environment should be available to allow cuts to be completed safely and the cut produce stacked accordingly.
- The length and weight of the timber must be sufficient to exert tension and compression forces, which have the potential to trap the saw requiring
  the use of hand tools to release the trapped saw.
- Sufficient working space must be provided to each candidate to allow the assessment to be conducted effectively without comprising other work site or assessment activities, e.g. multiple assessments being completed at one time.
- Assessors should complete a pre-use inspection of all work equipment intended to be used during the course of the assessment. Ensuring
  equipment meets the requirements of suitability in terms of size, condition, safety features etc.
- Warning signs must be erected as appropriate to risk assessment.
- Candidates will need to undertake a minimum of 10 severing cuts, maximum 20.
- Four cuts undertaken must be under tension/compression minimum 4 maximum 8
- Two bore cuts must be demonstrated, maximum of 4.

#### **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.
- 2 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.
- During chainsaw based assessments a spare working chainsaw must be available. 6.
- Appropriate Personal Protective Equipment (PPE) must be worn at all times by both the candidate and the assessor. All PPE used must 7. comply with relevant AFAG guidance, industry good practice, Health and Safety Executive publications and current legal requirements in terms of specification and use.
- 8. 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.
- The use of personal first aid kits must be line with current industry good practice. 9
- The assessor must ensure a site specific risk assessment has been carried out, sufficient control measures implemented and appropriate 10. 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.
- Manual handling techniques must comply with current legislation and industry good practice. 11.
- 12. Any necessary permission must have been granted, and notifications made as appropriate.
- All equipment being used for this assessment must comply with relevant legislative requirements. 13.
- Information may be sought from the relevant operator manuals or any other appropriate training or safety publication. 14
- 15. The current regulations for transport, handling and storage of fuel and oils must be complied with.
- Provision must be made to avoid the risk of environmental pollution. 16.
- 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 qualification.
- 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.
- Appropriate steps should be taken to maintain effective teamwork in respect of other persons on site during the assessment. 20.
- 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.
- 22. 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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Candidate	e A Name:		Da	te:	Start Time:	Dura	atior	1:		
Candidate	B Name:		Da	te:	Start Time:	Dura	atior	1:		
Candidate	C Name:		Da	te:	Start Time:	Dura	atior	1:		
Candidate	e D Name:	Name: Date: Start Time		Start Time:	Dura	atior	1:			
CRITERIA	A ASSESSMENT ASSESSOR		Δ.		SSESSMENT		С	AND	IDA.	TE
NUMBER	CRITERIA	GUIDANCE		ACTIVITIES			Α	В	С	D
	Identify the hozords and	Three hazards and ricks w	/ith	Identify bezords (anything with the natential to says						<b>†</b>

Candidate	D Name:		Date:	Start Time:	Durat	ion:			
CRITERIA	ASSESSMENT	ASSESSOR	A:	ASSESSMENT		C/	ANDI	IDAT	ſΕ
NUMBER	CRITERIA	GUIDANCE		ACTIVITIES			В	С	D
1.1	Identify the hazards and risks associated with the working area and the proposed work	Three hazards and risks withe working area  Three hazards and risks withe proposed work	harm) and risks (who relevant to:  the work area	thing with the potential to cat might be harmed and how),					
		and proposed tront	the work to be d	one					
				Met√ Not N	∕let X				
3.2	Outline the emergency planning and procedures relevant to the working	State <b>five</b>	include:	es relevant to a work site ma					
	area		location name						
3			grid reference	ting place					
			designated mee     site location nan	• .					
			one recaller man						
				•					
			01.001.1107.0101	public road/light vehicles, fou	ur-				
			<ul> <li>suitable helicopt</li> </ul>	er landing area					
			phone number of	of nearest doctor					
			hospital and pho						
			<ul> <li>works manager</li> </ul>	contact details					
			•	t number/mobile number					
			• other						
				Met ✓ Not N					
3.1 3	Outline key health and safety legislation and industry good practice	Two points from  Health and Safety at Work Act 1974	good practice listed b						
			maintain safe place     other		_				
		Provision and Use of Work Equipment Regulations 199 (PUWER 98)		•					
		<b>One</b> purpose of Arboriculture Forestry Advisory Group (AFAG)	information:	y Advisory Group (AFAG) ustrial good practice					
			other operators during	vice the length of the product	t,				
						-	_		
				Met ✓ Not N	net X	긔	Ш	Ш	닏
1.3	Work in a way which maintains health and safety and is consistent	Assessor to observe		et be completed in a way white erator and those around him of					
1	with relevant legislation and industry good practice			Met ✓ Not M	et X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDAT	TE D
1.4	Carry out work to minimise environmental damage	Assessor to observe	It is ensured that any possible environmental damage is minimised at all times during cross-	1			
	-		cutting activities				
1	Use appropriate tools,	Assessor to observe and risk	Met ✓ Not Met X	닏	Ш	Ш	Ш
1.2	equipment and personal protective equipment (PPE)	assess	all tools, equipment and Personal Protective Equipment is used in line with industry good practice e.g. AFAG/INDG				
1	(1.1.2)		Met ✓ Not Met X				
3.3	Describe how to use and maintain tools and equipment	Two maintenance	Maintenance of tools and equipment may include:				
		Two uses  Equipment not to include the candidates chainsaw or maintenance tools	Uses of equipment may include:  Iifting  rolling  dragging  other				
			Met ✓ Not Met X				
3.4	Describe how environmental damage can be caused and minimised	One cause	Environmental damaged may be caused by:  incorrect storage of fuel and oil  defective machinery  poor work practices  other				
		One prevention	Environmental damage may be prevented by:  following principles of industry good practice good housekeeping appropriately trained operators other				
	Inappet timber to identify	The googgest will about	Met ✓ Not Met X	Ш	Ш	Ш	Ш
2.2	Inspect timber to identify tension and compression	The assessor will choose timber on site suitable for identification	<ul> <li>candidate to inspect the timber to identify points of tension and compression prior to crosscutting</li> <li>Met ✓ Not Met X</li> </ul>				
2							
4.1 4	Describe tension and compression in timber	The assessor will choose timber on site suitable for explanation	Tension is found:  on the outside edge of strained timber and when cut, the kerf opens  Compression is found:				
			on the inside edge of strained timber and when cut, the kerf closes				
		State the procedure for removing trapped saw	Trapped saw  first switch off engine and/or apply chain brake  lever the timber to open the cut  drive a wedge into the closed kerf  withdraw the saw  use another saw to free the trapped saw cutting the timber at least 300mm (12") from the trapped				
			saw Met ✓ Not Met X				
2.1	Carry out pre-start checks and setting of the machine for use	Assessor to observe	Pre start checks and setting of the machine to include:  • chain tension and condition checked for safe and effective use  • safety features checked for condition and function  • external nuts and bolts checked for security  • chainsaw contains sufficient fuel and chain oil for operations  Met ✓ Not Met X				
			Met + Not Met X	ᆫ	Ш	닏	ഥ

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			ASSESSMENT ACTIVITIES	C A	AND B	IDA1	TE D
	Demonstrate safe starting	Assessor to observe			starting procedure of a chainsaw should		Ī	Ť	<u> </u>
2.3	of the chainsaw		inci	ude:	ct PPE worn				
2			•		ve guidebar cover				
_			•		saw on ground, where appropriate, ring no debris can catch the chain				
			•	secui	e rear handle				
			•	manu	ols set as recommended by the  ufacturer				
			•		re chain brake set according to				
			•	•	t safe stance				
			•	firmly					
			•		e released when engine fires				
			•	nairt	hrottle released when engine runs				
					ng checks of a chainsaw should include:				
			•	revs	ring the saw chain stops when the engine return to idle				
			•		ring the chain brake functions according to name				
			•	ensu	ring the stop switch works correctly				
			•		ring lubrication to the guide bar and chain is ng properly				
					Met ✓ Not Met X	Г			П
	Describe how to apply	Two methods	Fr	gonomi	ic working methods may be applied by:	۳	Н	屵	屵
4.6	ergonomic working		•	•	ging timber				
	methods		•	•	g timber				
4			•	-	good manual handling techniques				
				other	of machinery				
		T			Met ✓ Not Met X	Ш	Ш	Ш	빝
2.4	Cross-cut timber to length using a chainsaw in	The length and weight of the timber must be sufficient to	• Cro		ng of timber to length should include: ring appropriate safe working distances from				
2.4	accordance with the job specification	exert tension and compression forces, which		both	fuel and other operators is maintained				
2	Specification	has the potential to trap the	•		ct use of PPE				
		saw.	•		er is in a safe and appropriate position starting procedure adopted				
		Candidates will need to	•		stance adopted including:				
		undertake a minimum of 10 severing cuts, maximum 20.		•	legs and feet are clear of the chain				
		Four cuts undertaken must		•	chainsaw is stable/secure/supported during crosscutting				
		be under tension/compression		•	minimal risk of muscular/skeletal injury				
		minimum 4 maximum 8	•		ligned to maintain accuracy out of line of chain				
			•		of throttle to cut safely and efficiently				
			•	cuttin	g techniques employed to complete				_
					rance of timber opriate boring technique used if applicable				
			•		ence of cuts undertaken to prevent saw				
					ming trapped				
			•	if app	opriate aids used for lifting, rolling or levering objective size.				
			•	and r	racy of measurement within site specification easonable tolerances				
			•		on and compression cuts should meet				
			•		brake used appropriately switched off and left in safe position, bar				
					replaced if appropriate				
					Met ✓ Not Met X				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	_		IDA	
NUMBER	CRITERIA Use appropriate boring	GUIDANCE Minimum of two bore cuts	ACTIVITIES	Α	В	С	D
2.5	cuts to initiate either tension or compression	must be demonstrated, maximum of four	candidate to use appropriate boring cuts to sever timber				
2	cuts		Met ✓ Not Met X				
	State recognised methods	Two methods	Timber above guide bar length may be crosscut by:				
4.2	required to cross-cut timber above guide bar		use of reduction cuts				
4	length		using a larger chainsaw/guide bar				
4			<ul> <li>rolling timber over</li> <li>cutting from both sides</li> </ul>				
			ů .				
	Explain how to grade and	One grading	Met ✓ Not Met X  Grading may include:	Ш	Ш	Ш	Ш
4.4	Explain how to grade and present logs for extraction	One grading	firewood, chip, pulp, sawlogs etc				
	and further processing		graded/sorted in line with end use/client need				
4			other				
		One presentation	Presentation of logs may include:				
			shortwood techniques     stacking for fireward or further processing.				
			<ul> <li>stacking for firewood or further processing</li> <li>other</li> </ul>				
			Met ✓ Not Met X				
4.3	Describe how to safely move timber	Two examples of each	Moving timber safely may include the following techniques:				
	By hand		By band:				
4	With the use of aid		<ul><li>By hand:</li><li>moving timber within the operators personal lifting</li></ul>				
	tools		capacity				
	Mechanical assistance		lightest to the heaviest				
			use of safe lifting techniques				
			Aid tools:				
			• dragging				
			<ul><li>rolling</li><li>lifting</li></ul>				
			Mechanical assistance:				
			<ul> <li>ensuring operators are outside of machinery risk zones</li> </ul>				
			communication established with machine operator				
			machines capabilities not exceeded				
			Met ✓ Not Met X				
0.0	Stack produce for	Assessor to observe	Stacking of timber should take into account:				
2.6	subsequent operations using appropriate aids and		use of appropriate aids to handle / move products				
4	tools		correct stance during lifting     avoiding excessive lifting by levering, sliding,				
			rolling				
			quality of stacking must be to an agreed job specification				
			tidy stacking of timber				
			position of stack appropriate to method of extraction				
			manually constructed stacks are limited to 1 metre				
			high • other				
			Met ✓ Not Met X				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT			AND	IDAT	ſΕ
NUMBER	CRITERIA	GUIDANCE		ACTIVITIES	Α	В	С	D
2.7	Check timber is in an appropriate and safe position			timber should be left in a safe, stable condition and appropriate position				
2	position.			Met ✓ Not Met X				
	State precautions to take	One precaution	Unco	ontrolled timber movement may be avoided by:				
4.5	to avoid uncontrolled timber movement			ensuring manual stacking does not exceed 1m in height				
4				using site features such as tree stumps to brace timber behind				
				avoiding stacking of timber on steep slopes or unsecured ground				
				improving site safety through the use of appropriate signage				
				Met ✓ Not Met X				

Summary of Assessment	(The Asse	ssor is to co	mplete the	following as	appropriate
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Candidate A	Candidate <b>has met</b> all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓		
	Signed:	Date:				
Candidate B	Candidate <b>has met</b> all of the assessment criteria	Tick	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick		
	Signed:	Date:				
Candidate C	Candidate <b>has met</b> all of the assessment criteria	Tick	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓		
	Signed:	Date:				
Candidate D	Candidate <b>has met</b> all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick		
	Signed:	Date:				
Foi (Int	r use by Internal Verifier ONLY if the assessment process was i ernal Verifier to complete ONE of the boxes below)	nternally	verified			
	oserved an assessment process taking place and I am satisfied that the judgement of the Assessor was appropriate.	at the a	ssessment was conducted in line with the qualification requirements	Tick		
I ob	I observed an assessment process taking place. The following were noted as areas of concern.					
Sig	ned:	Date:		ı		