

CITY & GUILDS NPTC LEVEL 2 AWARD IN FOREST MACHINE OPERATIONS – BASE MACHINE WITH PROCESSING TIMBER (MOBILE) (QCF) 600/9424/2



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 and Arboriculture Level 2		
Qualification Programme No	0 0 2 0 - 4 6	Award in Forest Machine Operations – Base Machines with Processing Timber (Mobile)		
Unit	2 0 8	Prepare and Operate a Base Machine		
	2 1 9	Prepare and Operate Machinery to Process Timber		
Endorsement(s)	0 0 1	Under 2.5 tonne Tracked	0 0 7	Chipper
	0 0 2	Over 2.5 tonne Tracked	0 0 8	Tub Grinder
	0 0 3	Under 2.5 tonne Wheeled Articulated	0 0 9	Brash Balers
	0 0 4	Over 2.5 tonne Wheeled Articulated	0 1 0	Splitters
	0 0 5	Under 2.5 tonne Wheeled Rigid	0 1 1	Stump Grinder
	0 0 6	Over 2.5 tonne Wheeled Rigid		
Learning Time (LT)	2 0 8	LT 35 (4 Credits)		
	2 1 9	LT 35 (4 Credits) (* see note on page 2)		
Recommended Assessment Duration		2 – 3 hours per Candidate		

City and Guilds Level 2 Award in Forest Machine Operations – Base Machine with Processing Timber (Mobile) (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 **two** compulsory units:

Unit 208	Prepare and Operate a Base Machine
	Outcome:
1.	Be able to work safely (B1)
2.	Be able to prepare and drive the machine (B2)
3.	Know how to prepare and drive machine (B3)
4.	Know relevant health and safety legislation and industry good practice (B4)

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

Endorsement: The assessment may be taken on a machine with any type of machine that is

001	Under 2.5 tonne Tracked
002	Over 2.5 tonne Tracked
003	Under 2.5 tonne Wheeled Articulated
004	Over 2.5 tonne Wheeled Articulated
005	Under 2.5 tonne Wheeled Rigid
006	Over 2.5 tonne Wheeled Rigid

The certificate will be endorsed accordingly. Candidates are encouraged to take their assessment with different machines to broaden their certification.

Unit 219	Prepare and operate machinery to process timber
	Outcome
1.	Be able to work safely (PT1)
2.	Be able to select, prepare and manoeuvre machinery (PT2)
3.	Be able to process timber (PT3)
4.	Know how to prepare and manoeuvre machinery (PT4)
5.	Know how to process timber (PT5)
6.	Know relevant health and safety legislation and industry good practice (PT6)

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

Endorsement: The assessment may be taken on a machine with any type of:

007	Chipper
008	Tub Grinder
009	Brash Balers
010	Splitters
011	Stump Grinder

The certificate will be endorsed accordingly. Candidates are encouraged to take their assessment with different machines to broaden their certification.

Only two endorsements can be taken in any one registration.

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 <input checked="" type="checkbox"/> 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 <input type="checkbox"/> 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.

Validation of Equipment

A Manufacturer's instruction book or operator's manual should be available for the Candidate to use during the assessment if required.

Vehicles must comply with department of Transport and road Traffic acts where relevant.

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.

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 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 may 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. 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 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

Safe Practice:

1. Assessors must hold a current 'First Aid at Work' Certificate.
2. It is strongly recommended that Candidates hold at least a recent, recognised 'Emergency First Aid' Training Certificate.
3. All forest machines used in the assessments must comply with relevant Arboriculture and Forestry Advisory Group (AFAG) Safety Guides
4. Candidates should be familiar with the machine that they are going to operate.
5. Appropriate Personal Protective Equipment (PPE) must be worn at all times.
6. A First Aid kit meeting current regulations, of the appropriate size for the number of persons on site, must be available.
7. The Assessor must ensure a Risk Assessment is carried out, and sufficient control measures implemented.
8. Any necessary permissions must have been granted, and notifications made as appropriate: (e.g. Forestry Commission, Forest Enterprise, Private owners etc).
9. All equipment being used for this assessment must comply with relevant requirements of the Provision and Use of Work Equipment Regulations (PUWER) 1998 and Lifting Operations and Lifting Equipment Regulations (LOLER) 1998.
10. Information may be sought from the relevant operator manuals or any other appropriate training or safety publication.
11. Provision must be made to avoid the risk of environmental pollution and adequate control measures must be implemented. (a suitable response kit to be available on the machine)
12. 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.
13. Whenever the Candidate leaves the base machine, the parking brake must be applied.
14. When the Base Machine is parked and left unattended, or any attachments/detachments of equipment, must carry out the safe stop procedure.
15. The Base Machine must be operated in such a way that the Candidate, Assessor, other persons or equipment are not endangered.
16. All ancillary equipment, when detached must be left in a safe and stable condition.
17. Candidates must comply with current regulations when working at heights regulations 2005 amended
18. The assessment is carried out in accordance with the safety guidelines laid down in Arboriculture and Forestry Advisory Group (AFAG) Safety Guides, Health and Safety publications and current machinery directives.
19. 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
20. Initial tonnage is done on unladen weight

Validation of Equipment:

Any Base Machine complying with industry guidance and European directives is acceptable for the test, provided it is suitably equipped for all assessment activities to be carried out. Where a ROPs structure is fitted, an operator seat restraint is in place and functional.

Any machine that can lift or suspend the load above the operator, who isn't protected by adequate/suitable FOPS and OPS, will be required to produce a current LOLER certificate to the Assessor

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

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
1.1 cont...			Risks <ul style="list-style-type: none"> • public • operator • environment • other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2 B & PT1	Use appropriate tools, equipment and personal protective equipment (PPE)	Assessor to observe appropriate tools, equipment and PPE are used in accordance to industry good practice All applicable to the task at hand	<ul style="list-style-type: none"> • All tools, equipment and Personal Protective Equipment are used in line with industry good practice e.g. AFAG/HSE. • During all on site operations PPE in accordance with industry good practice must be worn. 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Personal Protective Equipment identified could include: <ul style="list-style-type: none"> • safety helmet (if required) • hearing protection (where needed) • suitable protective gloves • protective boots • non snag outer clothing • high visibility clothing where risk assessment identifies it • hand cleaning materials • first aid kit • other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.1/6.1 B4 PT6	Outline the key health and safety legislation and industry good practice	The Candidate to state two relevant points of each of the following: Health and Safety at Work Act (HSWA) (1974) Provision and Use of Work Equipment Regulations 1998 (PUWER 98) Lifting Operations and Lifting Equipment Regulations (1998) (LOLER)	Outline key points from the legislation listed below: Health and Safety at Work Act (HSWA) (1974) – <ul style="list-style-type: none"> • general duties for employers and employees • maintain safe places of work • other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Provision and Use of Work Equipment Regulations 1998 (PUWER 98) – <ul style="list-style-type: none"> • record keeping • operators adequately trained • equipment fit for purpose • other _____ Lifting Operations and Lifting Equipment Regulations (1998) (LOLER) <ul style="list-style-type: none"> • main requirements of the LOLER required by the machine • risk zones • safe working load • inspection by a competent person • operating controls labelled • other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
4.1/6.1 cont...		Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (RIDDOR)	Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (RIDDOR) <ul style="list-style-type: none"> reporting of accidents reporting of dangerous occurrences other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Working at Heights	Working at Heights <ul style="list-style-type: none"> adequate precautions taken for safe working procedures any height constitutes working at heights other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Control of Substances Hazardous to Health (COSHH) Regulations (2002)	Control of Substances Hazardous to Health (COSHH) Regulations (2002) <ul style="list-style-type: none"> correct PPE to be identified correct storage and application disposal other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		State two sources of industry good practice information	Industry Good Practice <ul style="list-style-type: none"> Arboriculture Forestry Advisory Group (AFAG) information Health and safety in forestry Forest and water guidelines Operators manual 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		State two factors of lone working	Lone working <ul style="list-style-type: none"> effective communication system fail to safe system reporting in times 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		State two procedures to be followed when machine contacts power line	Line contact possible procedures: <ul style="list-style-type: none"> where possible, drive away to safe area if safe, stay in machine and contact power company/supervisor jump from machine, bunny hop as far as possible 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		State four factors regarding working near power lines	Power lines <ul style="list-style-type: none"> designated crossing point (goal posts) liaison with power companies site maps AFAG electricity at work other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Met ✓ Not Met X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3/6.3 B4 PT6	Describe the types of records that may be required for management and legislative requirements	The Candidate to state two types of record keeping to meet PUWER	Records: <ul style="list-style-type: none"> logbook service logbook time sheet maintenance schedule other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Met ✓ Not Met X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
4.2/6.2 B4 PT6	State why it is important to maintain good communication and team work within the working environment	State One	Importance of communication could include: <ul style="list-style-type: none"> health and safety site planning/co-ordination other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1/4.1 B3 PT4	State the safety requirements and routine checks required for the machine	All required	<p>Level ground</p> <ul style="list-style-type: none"> all fluid levels can be accurately checked other _____ <p>Machine Services</p> <ul style="list-style-type: none"> security unauthorised third party operation other _____ <p>Cleanliness</p> <ul style="list-style-type: none"> personal contamination system contamination other _____ <p>Adjustment</p> <ul style="list-style-type: none"> ergonomics visibility other _____ <p>Restraint systems</p> <ul style="list-style-type: none"> personal safety HSE requirement other _____ <p>Operator protection systems</p> <ul style="list-style-type: none"> roll over protective structure (ROPS) falling object protective structure FOPS) operator protection structure (OPS) other _____ <p>Access and Egress</p> <ul style="list-style-type: none"> operator safety PUWER other _____ <p>Either</p> <p>Wheeled</p> <p>Tyre pressure and ballast</p> <ul style="list-style-type: none"> tyre dealers recommendations operators handbook stability traction aids band tracks of chains other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
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3.1/4.1 cont...			Wheel nuts <ul style="list-style-type: none"> • visually • torque wrench • operators handbook OR Tracked Track Drive Train <ul style="list-style-type: none"> • track will come off • track will break • lack of traction • premature wear • long term damage • other _____ Tension criteria <ul style="list-style-type: none"> • according to manufacturers recommendations • other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.1 B & PT 2	Carry out pre and post-start checks to test all operating functions of the equipment	The Assessor must be satisfied that the Candidate has a thorough knowledge of the loader and attachment Plan work and the work site to maintain safe working areas to operate the timber processor State five State four	Planning work may include: <ul style="list-style-type: none"> • with minimal damage to the worksite • standing trees • tracks • roads • drains • environment • in accordance with the site and job specification • other _____ Utilise additional safeguards such as: <ul style="list-style-type: none"> • barriers • banksman • signs • other workers • risk zone e.g. adjacent roads and tracks • other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
2.1 cont...		Assessor to make sure suitable PPE is available and used where necessary.	Pre and post start checks on the machine according to the operators handbook and to include:				
		Assessor to visually observe candidate carrying out the pre and post start checks of the machine	<ul style="list-style-type: none"> machine on level ground ensure machine services in neutral and lowered where applicable engine stopped and key removed check engine oil, transmission/hydraulic oil, coolant and fuel level, engine air filter importance of cleanliness 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Candidate to comment on machines serviceability	<ul style="list-style-type: none"> seat, steering mechanism and mirror adjustment operator seat restraint is functional (where applicable) 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Assessor is to use their own discretion as to whether a seat belt/lap restraint is to be worn during assessment	<ul style="list-style-type: none"> check operator protection systems check relevant access and egress points check wheel nuts check pin bush wear and security check for cracks/fatigue check for hydraulic leaks security of components check safety decals LOLER certificate (if required) radiators (coolant and hydraulic) fuel filters and/or water trap grease where and when appropriate 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Check security of loader to base	<ul style="list-style-type: none"> bolts cracks leaks 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Check security of loader attachment	<ul style="list-style-type: none"> bolts cracks 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Check attachment	<ul style="list-style-type: none"> security condition hydraulic leaks pin and bushes pipe work guarding 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Maintenance of machine	Chassis				
		Assessor to observe candidate adhering to environmental best practice and COSHH regulations	<ul style="list-style-type: none"> cracks pin security bushes cylinders attachment loose or broken bolts cables and connections guarding 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Saw chain (if fitted)				
			<ul style="list-style-type: none"> sharpness tension (if applicable) wear and tear broken tie straps lubricant guarding 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
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2.1 cont...			<p>Either</p> <p>Wheeled</p> <ul style="list-style-type: none"> tyre suitably inflated tyre condition check wheel nuts <p>OR</p> <p>Tracked</p> <ul style="list-style-type: none"> track drive train condition and maintenance are checked pins (if applicable) sprocket idler track plates/pads (if applicable) tension criteria <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.6 B4	Describe the correct methods for disposing of waste	The Candidate to state one method	<p>Disposal of waste from workplace activities may include:</p> <ul style="list-style-type: none"> waste oils placed in approved containers for disposal use of designated waste/recycle bins other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.5 B4	Describe how environmental damage can be caused and minimised	<p>Three causes</p> <p>Three preventions</p>	<p>Environmental damage may be caused by:</p> <ul style="list-style-type: none"> incorrect storage of fuel and oil defective machinery poor work practice oil and fuel spillages other _____ <p>Environmental damage may be prevented by:</p> <ul style="list-style-type: none"> following principals of industry good practice good housekeeping appropriately trained operators spill kits are available other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.3 B3	State the factors that may cause the cooling system to overheat	Candidate to state four	<p>Factors that may cause the cooling system to over heat may include:</p> <ul style="list-style-type: none"> fan belt slack radiator core blocked radiator fins blocked faulty thermostat cylinder fins spaces blocked (air cooled only) low fluid levels other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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3.4 B3	Describe how to check the battery(s) and report on the condition	State how to clean battery terminals State three reasons that could cause a battery to explode State three	<ul style="list-style-type: none"> • use of hot water • other _____ <p>Battery could explode due to:</p> <ul style="list-style-type: none"> • excessive charge rate • charger not switched off before connection or disconnection while on charge • sparks near gas outlet • involuntary earthing of the battery • incorrect fitting of jump leads from machine to machine or power pack • other _____ <p>Battery condition may include:</p> <ul style="list-style-type: none"> • battery is secured • leads connected and checked for damage • terminals cleaned satisfactorily • anti-corrosion grease put on leads and terminals when reconnecting • bolts are tight but not over-tightened • other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.5 B3	Explain the safe procedure to follow for detecting leaks in high pressure hydraulic systems	Candidate to explain the safe procedure for detection	<p>Safe procedure for detection may include:</p> <ul style="list-style-type: none"> • hands not used for detection of leak • use a piece of card or paper • other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.6 B3	Explain the procedure to follow when replacing a hydraulic hose	Candidate to identify all procedure for replacing a hydraulic hose Correct amount of tools chosen Identify the four main criteria for a replacement hose	<p>According to the operators manual and to include:</p> <ul style="list-style-type: none"> • appropriate PPE identified • use of spill kit • hydraulic system lowered and pressure relieved • importance of cleanliness • vacuum pump (if fitted) • shut off valve (if fitted) <p>Tools:</p> <ul style="list-style-type: none"> • spanners x 2 <p>Criteria for hose replacement</p> <ul style="list-style-type: none"> • pressure rating • length • end fittings • bore • referred to operators manual 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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3.6 cont...		<p>What factors need to be taken into account when fitting the new hose</p> <p>Environmental considerations</p>	<ul style="list-style-type: none"> new hose fitted ensuring inside of hose and joints are clean correctly routed not twisted switch off vacuum pump (if fitted) open valve (if fitted) hydraulic oil topped up and checked as required start machine operate function check for leaks clean up spill kit re-check oil level bagged and labelled licensed disposal recycle other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.2 B2	Carry out safe access and egress	Assessor to visually observe safe access and egress	<ul style="list-style-type: none"> Candidates must demonstrate safe access and egress from machine using the hand and foot holds provided and facing into the cab (3 points of contact) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.2 B3	Explain the function of all controls and how to interpret instrument readings	The Candidate to explain the controls inside the cab and what are their functions	<p>Refer to operators manual</p> <p>The function and setting of the following controls:</p> <ul style="list-style-type: none"> starting devices, including cold start engine speed control stop control check function of emergency stop gear selection clutch differential lock (where applicable) PTO lever engagement and speed range selector (where applicable) 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		State the instruments inside the cab, what they are and how should they be interpreted	<ul style="list-style-type: none"> brakes (independent and parking) and remote braking device if fitted hydraulic controls draft control (as applicable) position control (as applicable) other controls provided external services lights, direction indicators, horn, screen wash/wipe, heating and ventilation controls and any safety warning device (where applicable) tractormeter and associated chart (if applicable) oil pressure gauge (or warning light) battery condition indicator or warning light other warning lights (as applicable) reversing aid (if applicable) 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
3.2 cont...		What action should be taken in the event of a warning light coming on	<ul style="list-style-type: none"> refer to operators manual 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		What action should be taken to maintain/check the fire fighting system is operational	<ul style="list-style-type: none"> fire fighting system(s) tested (if fitted) fire extinguishers maintained, checked and in date access and egress points in the event of an emergency <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.7 B3	Describe safe driving techniques that should be used on site	All relevant to the machine					
		The dangers of driving at high speed	The dangers of driving at high speed <ul style="list-style-type: none"> stability stopping distance other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		The benefits of wide wheel track settings	The benefits of wide wheel track settings <ul style="list-style-type: none"> stability other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Up and down hill	Up and down hill <ul style="list-style-type: none"> straight load distribution 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Across a slope	Across a slope <ul style="list-style-type: none"> avoid if possible direction of turn up hill (rigid), downhill (articulated), tracked machine (specific) weight distribution route construction avoid obstacles 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Over rough ground	Over rough ground <ul style="list-style-type: none"> speed stability weight distribution 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		When driving with heavily loaded trailers and implements	When driving with heavily loaded trailers and implements <ul style="list-style-type: none"> speed stability weight distribution route planning 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Change of centre of gravity when turning	Change of centre of gravity when turning <ul style="list-style-type: none"> stability <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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4.3 PT4	Explain the implications of terrain, ground conditions, season and weather on planning access routes and driving the machine	Describe factors to consider when route planning One example from each	Route planning may be achieved by assessing: Terrain <ul style="list-style-type: none"> roughness, slope other _____ Ground conditions <ul style="list-style-type: none"> match ground conditions (ground bearing capacity) other _____ Season and weather <ul style="list-style-type: none"> winter, summer other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.3 B2	Carry out the operation on site in a safe, effective and efficient way	Assessor to observe the candidate carrying out correct starting techniques in accordance to manufacturers recommendations	Start engine <ul style="list-style-type: none"> isolator switch engaged parking brake applied gears in neutral clutch pedal depressed (if applicable) PTO disengaged (if applicable) hydraulic services in neutral (if applicable) start 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.3 PT2	Manoeuvre the machine on site in a safe and effective way	Assessor to observe the candidate drive the machine turning left and right, reverse, park, switch off and exit Assessor to visually observe the candidate carrying out correct shutting down techniques in accordance to manufacturers recommendations	Candidate to drive machine: <ul style="list-style-type: none"> safe access start in accordance with manufacturers recommendations appropriate gear selection smoothness of take off drive in a straight line left and right turn reverse (if applicable) appropriate speed for conditions appropriate use of brakes safe position on site chosen controls and attachments in neutral and lowered to the ground parking brake applied and effective safe egress Stop engine <ul style="list-style-type: none"> allow engine to idle lower and disengage hydraulic services and PTO gears in neutral and parking brake applied shut down electrical services/computer disengage ignition and remove key disengage and remove isolator switch <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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5.1 PT5	Describe how to gather and select material effectively	The capabilities and limitations of the machine in relation to processing	<ul style="list-style-type: none"> minimise machine travel identify tree species gather material to maximise machine output (if applicable) maximise machine input branch formation (if applicable) other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.2 PT5	Describe how to process timber	<p>Assessor to ensure candidate has sufficient knowledge of machine and task</p> <p>Procedure for setting log length</p> <p>How to decide which trees should be prepared or processed manually</p>	<p>Either</p> <p>Chipper</p> <ul style="list-style-type: none"> separate doubles and forked materials separate out over sized materials separate unwanted/hazardous materials position in feed hopper safe position selected for out feed chute position machine to material set machine to optimise machine output correct feed speed avoid overloading deal with blockages safely safe shutdown procedure emergency stopping procedure other _____ <p>OR</p> <p>Tub Grinder</p> <ul style="list-style-type: none"> separate doubles and forked materials separate out over sized materials separate unwanted/hazardous materials safe position selected for out feed chute position machine to material set machine to optimise machine output correct feed speed avoid overloading deal with blockages safely safe shutdown procedure emergency stopping procedure other _____ <p>OR</p> <p>Brush Balers</p> <ul style="list-style-type: none"> separate out over sized materials separate unwanted/hazardous materials safe position selected for out feed position machine to material set machine to optimise machine output correct feed speed avoid overloading chainshot risk zone identified bales correctly positioned for subsequent extraction bales wrapped securely deal with blockages safely safe shutdown procedure emergency stopping procedure other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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5.2 cont...			<p>OR</p> <p>Splitters</p> <ul style="list-style-type: none"> • separate doubles and forked materials • separate out over sized materials • separate unwanted/hazardous materials • safe position selected for processing attachment • position machine to material • set machine to optimise machine output • correct feed speed • avoid overloading • deal with trapped materials/mechanisms • safe shutdown procedure • emergency stopping procedure • other _____ <p>OR</p> <p>Stump Grinder</p> <ul style="list-style-type: none"> • avoid unwanted/hazardous material • correct position of machine to material • set machine to optimise machine output • correct feed speed • avoid overloading • deal with jammed material safely • safe shutdown procedure • emergency stopping procedure • other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.3 PT5	Describe how to ensure end product meets specification	Ensure the product specs are met	<ul style="list-style-type: none"> • regular checks on specification of processed timber during operation and recognise malfunctions • measures manually with tape or other measuring device (if applicable) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1 PT3	Process the timber in accordance with the job specification	Assessor to ensure that the chosen machine is used productively.	<p>Process timber according to job specification:</p> <ul style="list-style-type: none"> • safely and efficiently • methodically • products are produced within the set standard • products segregated • ensure that any damage to the remaining standing trees or to the environment is minimal • saw not to be pointed at cab, where applicable • position machine correctly, safely and effectively • measuring device zeroed before processing begins (if applicable) • other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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1.3 B & PT 1	Carry out work specification in accordance with relevant legislation, industry good practice and maintains health and safety	Assessor to observe	<ul style="list-style-type: none"> All activities must be completed in a way which protects the operator and those around them. <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4 B & PT 1	Carry out work to minimises environmental damage	Assessor to observe	<ul style="list-style-type: none"> It is ensured that any possible environmental damage is minimised at all times during on site operations <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.2 PT3	Use machinery in accordance with relevant legislation and manufacturer's instructions	Assessor to observe	Use machinery in accordance: <ul style="list-style-type: none"> relevant legislation and manufacturer's instructions other _____ <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Summary of Assessment (The Assessor is to complete the following as appropriate)

Candidate A	Candidate has met all of the assessment criteria	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
	Signed:		Date:	

Candidate B	Candidate has met all of the assessment criteria	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
	Signed:		Date:	

Candidate C	Candidate has met all of the assessment criteria	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
	Signed:		Date:	

Candidate D	Candidate has met all of the assessment criteria	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
	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 <input checked="" type="checkbox"/> <input type="checkbox"/>
I observed an assessment process taking place. The following were noted as areas of concern.	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
Signed:	
Date:	