

CITY & GUILDS NPTC LEVEL 2 AWARD IN FOREST MACHINE OPERATIONS – BASE MACHINE WITH FORWARDER QAN 600/9750/4



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 2	Award in Forest Machine Operations – Base Machine with Forwarder
Unit	2 0 8	Prepare and operate a base machine
	2 0 9	Prepare, drive and manoeuvre forwarder
Guided Learning Hours (GLH)	2 0 8	GLH 35 (Credit Value 4)
	2 0 9	GLH 38 (Credit Value 5)
Total Qualification Time (TQT)		90 Hours
Recommended Assessment Duration		2.5 – 4 hours per Candidate
Endorsement(s)	0 0 1	Under 2.5 tonne Tracked
	0 0 2	Over 2.5 tonne Tracked
	0 0 3	Under 2.5 tonne Wheeled Articulated
	0 0 4	Over 2.5 tonne Wheeled Articulated
	0 0 5	Under 2.5 tonne Wheeled Rigid
	0 0 6	Over 2.5 tonne Wheeled Rigid

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

City and Guilds NPTC Level 2 Award in Forest Machine Operations – Base Machine with Forwarder Qualification guidance

Introduction

The scheme will be administered by City & Guilds

City & Guilds will:

- Publish
 - Scheme regulations
 - Qualification guidance
 - Training material
 - Trainers support material
- Approve centres to co-ordinate and administer the scheme
- Set standards for the training of verifiers and assessors
- Recruit, train and deploy verifiers
- Manage verification
- 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 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)

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 |

- Unit 209** Prepare, Drive and Manoeuvre Forwarder
Outcome
1. Be able to work safely (F1)
 2. Be able to prepare, drive and manoeuvre forwarder (F2)
 3. Be able to operate grapple (F3)
 4. Know how to prepare forwarder (F4)
 5. Know how to drive and manoeuvre forwarder (F5)
 6. Know relevant health and safety legislation and industry good practice (F6)

Candidates must successfully achieve **all** assessment activities in both Mandatory units 208 & 209.

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).

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. Subject to H&S restrictions 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 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 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 NPTC. (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 measured on unladen vehicle 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

Candidate A	Name:	Date:	Start Time:	Duration:
Candidate B	Name:	Date:	Start Time:	Duration:
Candidate C	Name:	Date:	Start Time:	Duration:
Candidate D	Name:	Date:	Start Time:	Duration:

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
4.4 B4	Outline the emergency planning relevant to the working area	The Candidate to state five factors in emergency planning	<p>Emergency planning procedures for a site could include:</p> <ul style="list-style-type: none"> location name grid reference designated meeting place site location name nearest access point street name/district type of access suitable helicopter landing area phone number of nearest doctor location and phone number of nearest accident and emergency hospital works manager contact details your own contact number <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.1 B1 F1	Identify the hazards and risks associated with the working area, the proposed work and the machine	<p>The Candidate to state four hazards and three risks with the working area/work to be done</p> <p>The Candidate to state four hazards and three risks for the machine</p>	<p>Identify hazards (anything with the potential to cause harm) and risks (who might be harmed), relevant to:</p> <p>The work area/work to be done</p> <p>Hazards</p> <ul style="list-style-type: none"> power lines terrain access routes chain shot risk zones struck by timber other _____ <p>Risks</p> <ul style="list-style-type: none"> operator others on site public other machine operators other _____ <p>The machine</p> <p>Hazards</p> <ul style="list-style-type: none"> struck by machine access and egress moving parts hot surfaces working at heights high pressure fluids 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
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 B1 F1	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. 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 F6	Outline 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) Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (RIDDOR)	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 _____ 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 _____ 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"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
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4.1/6.1 Cont...		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 F6	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"/>
4.2 B4	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 _____ 	<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
2.1 B2 F2	Carry out pre and post-start checks of the machine consistent with environmental good practice and manufacturers recommendations	<p>Assessor to observe candidate carrying out the pre and post start checks of the machine</p> <p>Candidate to comment on machines serviceability</p> <p>Assessor is to use their own discretion as to whether a seat belt/lap restraint is to be worn during assessment</p> <p>Check security of loader to base</p> <p>Check security of loader attachment</p> <p>Check attachment</p> <p>Maintenance of forwarder</p> <p>Assessor to observe candidate adhering to environmental best practice and COSHH regulations</p>	<p>Pre and post start checks on machine according to the operators handbook and to include:</p> <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 seat, steering mechanism and mirror adjustment operator seat restraint is functional (where applicable) check operator protection systems check relevant access and egress points 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"/>
			<ul style="list-style-type: none"> bolts cracks leaks 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<ul style="list-style-type: none"> bolts cracks 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<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"/>
			<p>Chassis/ Frame</p> <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"/>
			<p>Hydraulic hoses</p> <ul style="list-style-type: none"> leaks cracks cuts abrasions security guarding 	<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...			<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 storage of oils on site spill kit mats used <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.3 3	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"/>
3.4 B3	Describe how to check the battery(s) and report on the condition	<p>State how to clean battery terminals</p> <p>State three reasons that could cause a battery to explode</p> <p>State three</p>	<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 _____ 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"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
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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	Safe procedure for detection may include:				
			<ul style="list-style-type: none"> hands not used for detection of leak use a piece of card or paper 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"/>
3.6 B3	Explain the procedure to follow when replacing a hydraulic hose	Candidate to identify all procedure for replacing a hydraulic hose	According to the operators manual and to include:				
			<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) 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct amount of tools chosen							
Identify the four main criteria for a replacement hose							
What factors need to be taken into account when fitting the new hose							
Environmental considerations							
Met ✓ Not Met X				<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	Refer to operators manual				
			The function and setting of the following controls:				
<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"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
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3.2 cont...		<p>State the instruments inside the cab, what are they and how should they be interpreted</p> <p>What action should be taken in the event of a warning light coming on</p> <p>What action should be taken to maintain/check the fire fighting system is operational</p>	<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) refer to operators manual 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"/>
5.4 F5	Discuss the capabilities and limitations of the loader when loading and unloading	<p>Four limitations</p> <p>The Candidate to explain the controls of the loader</p>	<p>Machine loader limitations may be assessed by</p> <ul style="list-style-type: none"> loader manufacturers guidance span diagram on loader lifting at short distances machine stability over extending traction aids/extra weight other _____ <p>The function and setting of the following controls:</p> <ul style="list-style-type: none"> engine speed control stop control check function of emergency stop PTO lever engagement and speed range selector (if applicable) oscillating lock and remote braking device (if applicable) hydraulic control decals height restriction devices (if applicable) load monitor (if applicable) other controls provided external services lights, horn and any safety warning device (where applicable) 	<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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5.4 cont...		<p>State the instruments inside the cab, what are they and how should they be interpreted</p> <p>What action should be taken in the event of a warning light coming on</p> <p>What action should be taken to maintain/check the fire fighting system is operational</p>	<ul style="list-style-type: none"> oil pressure gauge and oil filter warning lights other warning lights (as applicable) refer to operators manual 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"/>
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"/>
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"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
5.2 F5	State the implications of terrain, ground conditions, season, weather and tree condition 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"> load to match ground conditions (ground bearing capacity) other _____ Seasonal <ul style="list-style-type: none"> winter, summer other _____ Tree species <ul style="list-style-type: none"> transport of brash from worked racks tree species relevant to brash availability 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 B3 F4	State the safety requirements, routine and functional checks required for machine and operator protection	All required	Level ground <ul style="list-style-type: none"> all fluid levels can be accurately checked other _____ Machine Services <ul style="list-style-type: none"> security unauthorised third party operation other _____ Cleanliness <ul style="list-style-type: none"> personal contamination system contamination other _____ Adjustment <ul style="list-style-type: none"> ergonomics visibility other _____ Restraint systems <ul style="list-style-type: none"> personal safety HSE requirement other _____ Operator protection systems <ul style="list-style-type: none"> roll over protective structure (ROPS) falling object protective structure FOPS) operator protection structure (OPS) other _____ Access and Egress <ul style="list-style-type: none"> operator safety PUWER other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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4.1 cont...			<p>Either</p> <p>Wheeled Tyre pressure and ballast</p> <ul style="list-style-type: none"> tyre dealers recommendations operators handbook stability traction aids band tracks of chains other _____ <p>Wheel nuts</p> <ul style="list-style-type: none"> visually torque wrench operators handbook <p>OR</p> <p>Tracked Track Drive Train</p> <ul style="list-style-type: none"> track will come off track will break lack of traction premature wear long term damage other _____ <p>Tension criteria</p> <ul style="list-style-type: none"> according to manufacturers recommendations other _____ <p>Environmental considerations</p> <ul style="list-style-type: none"> waste bagged and labelled licensed disposal recycle other _____ <p>Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.7/5.1 B3 F5	Describe safe driving techniques that should be used on site	<p>All relevant to the machine</p> <p>The dangers of driving at high speed</p> <p>The benefits of wide wheel track settings</p> <p>Up and down hill</p>	<p>The dangers of driving at high speed</p> <ul style="list-style-type: none"> stability stopping distance other _____ <p>The benefits of wide wheel track settings</p> <ul style="list-style-type: none"> stability other _____ <p>Up and down hill</p> <ul style="list-style-type: none"> straight load distribution 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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3.7/5.1		Across a slope	<p>Across a slope</p> <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	<p>Over rough ground</p> <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	<p>When driving with heavily loaded trailers and implements</p> <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	<p>Change of centre of gravity when turning</p> <ul style="list-style-type: none"> stability <p>Importance of loader position and machine stability</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Three of each	<p>Loader position</p> <ul style="list-style-type: none"> maintain the centre of gravity over reaching over loading slope/steep ground loader parking position <p>Machine stability</p> <ul style="list-style-type: none"> use of legs (if fitted) oscillation lock ballast of tyres/traction aids ground condition 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Four methods	<p>Safe driving techniques may be applied by</p> <ul style="list-style-type: none"> correct gear selection and engine speed route selection and planning patching and brash matt repair appropriate use of difflock (if applicable) appropriate use of traction aids (if applicable) appropriate use of steering drawbar (if applicable) avoid standing crop avoid overloading load to match ground conditions other _____ 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<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"/>

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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"/>
2.2 F2	Drive 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	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 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
& 2.3 F2	Manoeuvre the machine on site in a safe and effective way	Assessor to visually observe the candidate carrying out correct shutting down techniques in accordance to manufacturers recommendations	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 	<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"/>
5.6 F5	Describe how to segregate and grade produce to meet required specification		Explain grading process <ul style="list-style-type: none"> products stacked appropriate to log specification planning of loading in relation to stacks at road side 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"/>
3.1 F3	Use machine to load/feed wood products	Two loads extracted to landing one of sawlogs and one load of shortwood	All activities must be completed in a way which protects the operator and those around them. Operator to load/unload both shortwood and logs: <ul style="list-style-type: none"> safely and efficiently grapple completely encloses product/s grapple parked when moving load and unload when stationary load to capacity headboard adjusted to load height load constructed to maintain stability and visibility timber aligned using headboard and ground or banging plate 	<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"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
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3.2 F3	Grade products to facilitate subsequent handling, processing or uplift for onward dispatch	Assessor to observe	Operator to grade both shortwood and logs to site specification Met ✓ Not Met X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.3 F3	Separate products for subsequent handling, processing or uplift for onward dispatch	Assessor to observe	Operator to separate both shortwood and logs to site specification Met ✓ Not Met X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.4 F3	Stack produce flush to a safe and stable height and condition	Assessor to observe	Candidate to use recognise industry guide lines to complete stacking operation <ul style="list-style-type: none"> • correct approach to landing <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • suitability of landing use bearers <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • correct distance and position from stack <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • stack constructed in a progressive self-supporting manner <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • efficient use of loader <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • stack height meets with industry guidance and follows site risk assessment <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"/>
5.5 F5	Summarise safe stacking heights, stability of stacks and signing requirements	Two methods	Safe stacking may be implemented by <ul style="list-style-type: none"> • warning signs <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • risk assessment <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • barrier tape <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • industry guidance <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • 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"/>
5.3 F5	Outline the implications of extracting long logs, poles or tree length timber to forwarder extraction	State two	Outline the implication of pole length extraction <ul style="list-style-type: none"> • compatibility of machine to products lengths <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • consider attachments <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • damage to centre joints <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • manoeuvrability <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> • 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"/>
1.3 B & F1	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. Met ✓ Not Met X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4 B & F1	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 Met ✓ Not Met X	<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 type="checkbox"/>	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓ <input type="checkbox"/>
	Signed:		Date:	

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

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

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