



NPTC

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LEVEL 2

CERTIFICATE OF COMPETENCE

IN

FOREST MACHINE OPERATIONS

ASSESSMENT SCHEDULE

FMO2.3 BED PROCESSING OPERATION

NPTC

LEVEL 2 CERTIFICATE OF COMPETENCE IN FOREST MACHINE OPERATIONS

FMO2.3 BED PROCESSING OPERATION

Introduction

The scheme is administered by NPTC.

NPTC will:

- Publish - scheme regulations
 - assessment schedule
 - assessment 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 Certificate of Competence/ID Card

Certificates of Competence/ID Cards 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 to an application for an assessment but potential Candidates are strongly advised to ensure that they are up to the standard that will be expected of them when they are assessed.

NPTC does not hold a register of instructors; however instruction will normally be available from recognised training providers and/or centres of further or higher education active in the areas covered by this certificate. Further information on training may be obtained from the local Assessment Centre.

Access to Assessment

Assessment Centres will be responsible for arranging assessment on behalf of a Candidate. Assessment may only be carried out by an Assessor approved by NPTC for that scheme. Under no circumstances can either instructors involved in the preparation of candidates, or the candidates work place supervisors, or anyone else who might have a vested interest in the outcome, carry out the assessment.

The minimum age limit for Candidates taking certificates of competence is 16 years. There is no upper age limit.

Assessment

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

The candidate must be registered through an NPTC approved Assessment Centre for this qualification prior to assessment.

The schedule of assessment contains the criteria relating to:

- Observation of practical performance
- Assessment of knowledge and understanding

When all the criteria within the Units for which assessment has been sought have been completed the result(s) will be recorded on the Candidate Assessment Report Form(s).

Performance Evaluation

At the Assessment the Assessor will evaluate each activity against the following criteria:

- 4 = Exceeds the requirements of the assessment criteria for both the practical performance and the underpinning knowledge, with no 'critical' faults. Delivering a safe, polished, efficient, unsupervised performance of the practical skill.
- 3 = Satisfies the requirements of the assessment criteria for both the practical performance and the underpinning knowledge, with no 'critical' faults. Candidate has sufficient fluency to perform the task safely, unaided and unsupervised.
- 2 = Does not fully satisfy the requirements of the assessment criteria. Candidate required some support or excessive time to perform the task satisfactorily and/or potentially causes a "critical fault". Weaknesses in performance exceed strengths.
- 1 = Does not satisfy the requirements of the assessment criteria. Candidate is unable to demonstrate sufficient skill or underpinning knowledge and weaknesses in performance substantially exceed strengths and/or causes a "critical fault".

A list of registered Assessment Centres is available from NPTC. (www.nptc.org.uk)

Verification

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 that NPTC 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 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 NPTC.

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

BED PROCESSING OPERATION

Objectives:

To establish that the Candidate has reached the required standard in the safe operation of a Bed Processor.

Learning outcomes:

The Candidates will be able to:

1. Carry out pre-start checks and routine maintenance
2. Carry out a Risk Assessment and site appraisal
3. Operate a bed processor in a safe and effective manner
4. Drive the machine on a variety of terrains as available on site

Safe Practice:

Whenever the Candidate leaves the operators cab, the processor must be safely parked and the parking brake must be applied.

When the machine is parked and left unattended, it must be immobilised and all doors secured.

The machine must be operated in such a way that the Candidate, Assessor, other persons or equipment are not endangered.

Failure to observe these conditions will result in the Candidate failing the test.

Manufacturer's instruction book must be available.

Candidates must comply with current regulations when working at heights of greater than 2 metres.

Validation of

Equipment: Any Bed Processor complying with legal requirements is acceptable for the test, provided it is suitably equipped for **all** test items to be carried out.

Additional

Information: May be sought from the relevant manufacturers' operator manuals or any other appropriate training or safety publication
FASTCo Safety Guides 501 and 603

Work site:

The Candidate should provide a written Risk Assessment for the operation.

FMO2.3 - BED PROCESSING OPERATION

The assessment is carried out in accordance with the safety guidelines laid down in FASTCo Safety Guides, Health and Safety publications and current legal requirements.

Assessment Activity	Assessment Criteria:
<p>PREPARATION</p> <p>1. Demonstrate knowledge of legal requirements and safety regulations</p>	<p>1. - awareness of any safety implications imposed by risk assessment on the machine and the operation</p> <p>- awareness of FASTCo guides and the relevance of their contents to the machine and the operation</p> <p>- awareness of statutory regulations when transporting on a public highway</p> <p>- Lifting Operation and Lifting Equipment Regulations (LOLER)</p> <p>- Provisional Use of Work Equipment Regulations (PUWER)</p>
<p>2. Answer questions on safety and on safety regulations which concern both the driver and affect any person in the vicinity of the machine</p>	<p>2. - All risk zones clearly and prominently marked externally and internally</p> <p>- Maximum machine height</p> <p>- Warning/prohibition signs erected</p> <p>- Barrier tape put up</p> <p>- Extra Manning considered</p> <p>- Steel Towers - 15m</p> <p>- Wooden poles - 9m</p>
<p>3. Demonstrate knowledge of requirements to safeguard the environment</p>	<p>3. - awareness of statutory requirements under control of pollution:</p> <ul style="list-style-type: none"> • fuel spillage/storage • erosion • oil/leakages • time of year • water contamination
<p>4. Carry out daily/weekly maintenance, settings and pre-start checks as per operators manual.</p>	<p>4. Check the following for fault, damage, cleanliness, adequate levels, tension, functioning etc.(if applicable):</p> <ul style="list-style-type: none"> • feed rollers, tyres and chains. • saw chain. • delimiting knives. • saw lubricant. • hydraulic hoses • oil leaks • loader cracks • chassis cracks • loose or broken bolts <p>- all safety requirements are met</p>
<p>5. Demonstrate knowledge of safe working limits</p>	<p>5. -- Manufacturer's instruction book</p> <p>- maximum delimiting diameters</p> <p>- machine handling limits</p> <p>- stability</p> <p>species</p>

Assessment Activity	Assessment Criteria:
<p>6. OPERATION Ensure a safe working system is implemented to protect operator motor manual cutters and others on site</p>	<p>6. -- working distance -- awareness of possibility of stem and other material movement - all work ceased if zone is entered elevated equipment lowered overhead hazards</p>
<p>7. Delimb and process a minimum of 10 felled trees</p>	<p>7. - correct positioning of machine - awareness of the possibility of stem and other material movement - grips tree correctly - loads bed processor correctly - zeros measurement at butt - delimbs efficiently to the given specification - confirms log length - positions and saws log correctly - continues logs - changes to pulp - checks lengths and diameter after processor is stopped - ensure that an effective brush mat is constructed to specification - industry recognised guidelines are followed</p>
<p>8. Demonstrate knowledge of processing forked and misshapen trees</p>	<p>8. - machine capability - maximise value of tree - alternative methods: • motor manual • chipping</p>
<p>9. Crosscut and stack a minimum of 10 trees efficiently to specification</p>	<p>9. -- stack produce clear of brush. stack produce clear of drains (across is acceptable) - grades logs - segregate different products - accumulate same products for extraction - mark products.(if appropriate) - industry-recognised guidelines are followed maximise value of tree</p>
<p>10. Take down of hung-up tree</p>	<p>10. - correct positioning of machine - grips tree correctly - take down tree in controlled manner - suitable position for further processing - awareness of effects on machine stability</p>

When using equipment fitted with computer control systems the Candidate must satisfy the Assessor in the items listed below in order to demonstrate a full working knowledge of the system and the affect that any malfunction would have on the safety of the operation, equipment and process.

Assessment Activity	Assessment Criteria:
11. Check function of computer control system	11. - ensure consistency of inputs to computer control system with actual parameters - recognise malfunctions before and during operation - conduct regular check during application operations - switch to "test mode" where applicable
12. Demonstrate knowledge of operation of computer control system	12. - working knowledge of and the associated functions of the control panel
13. Demonstrate knowledge of action to be taken in the event of failure of computer control system in order to maintain safety	13. -- stop harvesting operation convert to manual operation
14. Programme a computer (if applicable)	14. - switch on computer taking relevant precautions - select Log 1 - programme log length and tolerances - programme minimum top diameter - select Log 2 - programme log length and tolerances - programme minimum top diameter - select Pulp 1 - programme length and tolerances - programme minimum top diameter - select Pulp 2 - programme length and tolerances - programme minimum top diameter - calibrate computer - confirm information is retained - switch off computer
15. Interrogate a computer (if applicable)	15. --- retrieve information check programmed sizes -- check number of pieces e.g. how many Log 1's, and how many pieces of pulp 2 --- check how many trees check volume of pieces by sizes e.g. how much volume of Log 2 check volume of trees obtain printout record information and clear memory