

**LEVEL 2**  
**CERTIFICATE OF COMPETENCE**  
**IN**  
**FOREST MACHINE OPERATIONS**

**ASSESSMENT SCHEDULE**

**FMO6 ESTABLISHMENT**

FMO6.01	Ripping Tine (Ground Prep)
FMO6.02	Mechanical Establishment and Maintenance of Drainage Ditches (Drainage)
FMO6.03	Excavator Mounding (Ground Prep)
FMO6.04	Ploughing - Single and Double (Ground Prep)
FMO6.05	Moulder - Continuous Acting (Ground Prep)
FMO6.06	Patch Scarification (Ground Prep)
FMO6.07	Disc Scarification - Non Powered (Ground Prep)
FMO6.08	Disc Scarification – Powered (Ground Prep)
FMO6.09	Planting – Non Mechanical Placement (Completion)
FMO6.10	Mechanical Flail/Mulcher (Crop Treatment)
FMO6.11	Chemical - Candidates must hold PA1 and PA2 or PA4 in NPTC Certificate of Competence in the Use of Pesticides (Crop Treatment)
FMO6.12	Stump Protection (Crop Treatment)

## NPTC

### LEVEL 2 CERTIFICATE OF COMPETENCE IN FOREST MACHINE OPERATIONS

#### FMO6 ESTABLISHMENT

##### 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](http://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.

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**Note:** The Certificate is endorsed according to the sub unit(s) taken.

### Learning outcomes:

The Candidates will:

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

### 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 candidate must be equipped with a personal first aid kit.
8. The Assessor must ensure a Risk Assessment has been carried out, and sufficient control measures implemented. In particular, the location of the site and weather conditions should be assessed, details of access, etc, which may be required by emergency services must be noted, as well as the nearest Accident and Emergency Hospital Unit. The means of contacting the emergency services must be established. Manual handling techniques must comply with current legislation.
9. Any necessary permissions must have been granted, and notifications made as appropriate: (e.g. Forestry Commission, Forest Enterprise, Private owners etc).
10. 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.
11. Information may be sought from the relevant operator manuals or any other appropriate training or safety publication.
12. The current Regulations for transport, handling and storage of fuel and oils must be complied with.
13. Provision must be made to avoid the risk of environmental pollution.
14. 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.
15. Whenever the Candidate leaves the leaves the operators cab, the processor must be safely parked and the parking brake must be applied.
16. When the machine is parked and left unattended, it must be immobilised and all doors secured.
17. The machine must be operated in such a way that the Candidate, Assessor, other persons or equipment are not endangered.
18. All ancillary equipment, when detached must be safely parked.
19. Candidates must comply with current regulations when working at heights of greater than 2 metres.
20. The assessment is carried out in accordance with the safety guidelines laid down in AFAG Safety Guides, Health and Safety publications and current legal requirements.

### Validation of Equipment:

Relevant machinery complying with legal requirements is acceptable for the assessment, provided it is suitably equipped for **all** assessment activities to be carried out.

## FMO6.01 - Ripping Tine

### SITE PREPARATION

Assessment Activity	Assessment Criteria:
<p><b>PREPARATION</b></p> <p>1. Demonstrate knowledge of legal requirements and safety regulations</p>	<ul style="list-style-type: none"> <li>- Awareness of any safety implications imposed by risk assessment on the machine and the operation</li> <li>- Awareness of FASTCo guides and the relevance of their contents to the machine and the operation</li> <li>- Awareness of statutory regulations when transporting on a public highway</li> <li>- Lifting operations and lifting equipment regulations (LOLER)</li> <li>- Provision and use of work equipment regulations (PUWER)</li> </ul>
<p>2. Demonstrate knowledge of requirements to safeguard the environment</p>	<p>Awareness of statutory requirements under control of pollution:</p> <ul style="list-style-type: none"> <li>- Fuel spillage/storage</li> <li>- Erosion</li> <li>- Oil/leakages</li> <li>- Time of year</li> <li>- Water contamination</li> </ul>
<p>3. Check power unit</p>	<ul style="list-style-type: none"> <li>- Power unit and ripping tine</li> <li>- Compatibility</li> <li>- Wheel/track width (as applicable)</li> <li>- Machine attachment and fitting check linkage, assister rams etc.</li> <li>- Select a suitable mode of control e.g. Correct hydraulic service to meet the manufacturers guidance in the machine operating instructions</li> </ul>
<p>4. Check the machine for correct operation and adjustment following the manufacturers operating instructions</p>	<ul style="list-style-type: none"> <li>- Attachment</li> <li>- Initial settings</li> </ul> <p>Machine safety features:</p> <ul style="list-style-type: none"> <li>- Shearbolts</li> <li>- Examine the machine for signs of wear and damage</li> <li>- Operators checklists</li> </ul>
<p>5. Demonstrate knowledge of sites suitable for ripping</p>	<ul style="list-style-type: none"> <li>- Gleyed mineral soils, shallow peats</li> <li>- Adequate soil depths</li> <li>- Natural drainage via slope or soil profile</li> <li>- Ripping methods used to minimise soil erosion</li> <li>- Effect of vegetation and other surface trash on operation</li> <li>- Desired planting positions</li> </ul>
<p>6. Demonstrate knowledge of site planning and safe operation on range of site types including peat and mineral soils of variable terrain</p>	<ul style="list-style-type: none"> <li>- Site planning and operational systems appropriate to site conditions one way and two way working, single and multiple rips/pass</li> <li>- Safe operation on steep slopes, turning, stability and traction</li> <li>- Poor traction caused by obstacles, tree stumps, boulders and other surface trash</li> <li>- Poor traction caused by varying soil and surface conditions</li> <li>- Wayleaves (electricity, telephone, gas)</li> </ul>

<b>Assessment Activity</b>		<b>Assessment criteria:</b>
7.	Demonstrate knowledge of safety precautions and requirements when working on sites with public access	<ul style="list-style-type: none"> <li>- Adequate warning signs</li> <li>- Safe working distances</li> <li>- Possible problems are identified when working alongside public rights of way</li> <li>- The right of way is maintained</li> <li>- Ensure all footpaths are repaired and safe to be used before the signs are removed and the site is left</li> </ul>
8.	Lubricate the machine as instructed in the operators manual	<ul style="list-style-type: none"> <li>- All lubrication points identified</li> <li>- Use of the machine operators manual to identify how frequently lubrication should be undertaken</li> <li>- Grease lubrication points (as required)</li> <li>- Check oil levels</li> <li>- Recommended lubricants</li> </ul>
<b>Site Work</b>		
9.	Set the machine on site to achieve the required outcome	<ul style="list-style-type: none"> <li>- Standard of work achieved acceptable</li> <li>- Depth of work acceptable to achieve the required outcome</li> <li>- Rate of work suited to site conditions and machine capabilities</li> </ul>
10.	Rip an area producing an acceptable standard of work for the site and ripping tines being used	<ul style="list-style-type: none"> <li>- Ripping speed</li> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures are observed for moving the machine during work</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Approach to working on slopes</li> <li>- Side slopes and effective machine operation</li> <li>- Wet site conditions and the effect on machine suggested working limits</li> </ul>
<b>Completion</b>		
11.	Demonstrate knowledge of cleaning, servicing and storage	<ul style="list-style-type: none"> <li>- Removal of soil</li> <li>- Use of operators instructions</li> <li>- Inspection and replacement of worn parts</li> <li>- Use of rust inhibitors and reasons why</li> <li>- Report defects</li> </ul>

**FMO6.02 - Mechanical Establishment and Maintenance of Drainage Ditches - Site Work (Part I)**  
**FMO6.03 – Excavator Mounding - Site Work (Part II)**

<b>Assessment Activity</b>	<b>Assessment criteria:</b>
<p><b>Preparation</b></p> <p>1. Demonstrate knowledge of legal requirements and safety regulations</p>	<ul style="list-style-type: none"> <li>- Awareness of any safety implications imposed by Risk Assessment on the machine and the operation</li> <li>- Awareness of statutory guarding requirements</li> <li>- Awareness of statutory regulations when in operation or in transport on public highway</li> <li>- Lifting Operations and Lifting Equipment Regulations (LOLER)</li> <li>- Provision and Use of Work Equipment Regulations (PUWER)</li> </ul>
<p>2. Demonstrate knowledge of requirements to safeguard the environment</p>	<p>Awareness of statutory requirements under control of pollution:</p> <ul style="list-style-type: none"> <li>- Fuel spillage/storage</li> <li>- Erosion</li> <li>- Oil/leakages</li> <li>- Time of year</li> <li>- Water contamination</li> </ul>
<p>3. Check power unit and bucket combination are suited to the work being undertaken</p>	<ul style="list-style-type: none"> <li>- Bucket type</li> <li>- Review types of site and work</li> <li>- Wheel / track width (as applicable)</li> <li>- Check machine attachment and fitting</li> <li>- Manufacturers guidance in the machine operating instruction manual are followed</li> </ul>
<p>4. Check the condition and security of the hydraulics and bucket operating components</p>	<ul style="list-style-type: none"> <li>- Hoses</li> <li>- Rams and ram mountings</li> <li>- Control spool valve mountings</li> <li>- Control lever mode of operation clearly marked</li> <li>- Boom and bucket pivots</li> <li>- Bucket attachment</li> <li>- Examine the machine for signs of wear and damage</li> <li>- Operator checklist</li> </ul>
<p>5. Lubricate the machine as instructed in the operators manual</p>	<ul style="list-style-type: none"> <li>- All lubrication points identified</li> <li>- Use of the machine operators manual to identify how frequently lubrication should be undertaken</li> <li>- Grease lubrication points (as required)</li> <li>- Check oil levels</li> <li>- Recommended lubricants</li> </ul>
<p>6. Demonstrate knowledge of types of buckets available and their uses</p>	<ul style="list-style-type: none"> <li>- As per manufacturers instruction book</li> </ul>
<p>7. Attach a suitable bucket</p>	<ul style="list-style-type: none"> <li>- Correct bucket chosen</li> <li>- Systems of attaching bucket</li> <li>- Appropriate and safe following manufacturers instructions</li> <li>- Safe use of hydraulic controls</li> <li>- Bucket secured correctly</li> </ul>
<p>8. Demonstrate knowledge of safety precautions and requirements when working alongside public rights of way</p>	<ul style="list-style-type: none"> <li>- Adequate warning signs</li> <li>- Safe working distances</li> <li>- Possible problems are identified when working along side public rights of way</li> <li>- The right of way is maintained</li> <li>- Ensure all footpaths are repaired and safe to be used before the signs are removed and the site is left</li> <li>- Spoil safely deposited</li> </ul>

<b>Assessment Activity</b>		<b>Assessment criteria:</b>
<b>Site Work - (Part I) Mechanical Establishment and maintenance of Drainage ditches</b>		
9.	Clean or form a length of ditch to a suitable profile	<ul style="list-style-type: none"> <li>- Inspect sites for hazards: power cables, drainage outfalls, soft banks etc.</li> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures are observed for moving the machine during work</li> <li>- Suitable profile and fall</li> <li>- Maintain rate of work suited to site conditions and machine capabilities</li> </ul>
10.	Demonstrate knowledge of forming a new drainage channel	<ul style="list-style-type: none"> <li>- Fall</li> <li>- Profile</li> <li>- Width</li> <li>- Soil types</li> </ul>
11.	Parking machine	<ul style="list-style-type: none"> <li>- Safe position on site chosen</li> <li>- Controls and attachments in neutral or lower to the ground</li> <li>- Parking brake applied</li> <li>- Engine off</li> <li>- Key removed</li> </ul>

<b>Site Work - (Part II) Excavator Mounding</b>		
12.	Form mounds to a suitable profile	<ul style="list-style-type: none"> <li>- Inspect site for hazards: power cables, drainage outfalls, soft banks etc.</li> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures are observed for moving the machine during work</li> <li>- Suitable profile</li> <li>- Rate of work suited to site conditions and machine capabilities</li> </ul>
13.	Demonstrate knowledge of sites suitable for mounding	<ul style="list-style-type: none"> <li>- Mineral soils</li> <li>- Adequate soil depths</li> <li>- Natural drainage via slope or soil profile</li> <li>- Mounding methods used to minimise soil erosion</li> <li>- Effect of vegetation and other surface trash on operation</li> <li>- Desired planting operations</li> </ul>
14.	Demonstrate knowledge of site planning and safe operation on range of site types including peat and mineral soils of variable terrain.	<ul style="list-style-type: none"> <li>- Site planning and operational systems appropriate to site conditions, one way and two way working, multiple rows / pass</li> <li>- Safe operation on steep slopes, turning stability and traction</li> <li>- Poor traction caused by varying soil and surface conditions</li> <li>- Poor traction caused by obstacles, tree stumps, boulders and other surface trash</li> <li>- Wayleaves (electricity, telephone, gas)</li> </ul>
15.	Parking machine	<ul style="list-style-type: none"> <li>- Safe position on site chosen</li> <li>- Controls are attachments in neutral or lower to the ground</li> <li>- Parking brake applied</li> <li>- Engine off and key removed</li> </ul>
16.	<b>Completion</b> Demonstrate knowledge of cleaning, servicing and storage	<ul style="list-style-type: none"> <li>- Removal of soil</li> <li>- Use of operators instructions</li> <li>- Inspection and replacement of worn parts</li> <li>- Report defects</li> </ul>

<b>FMO6.04 – Ploughing (Single and Double)</b>	
<b>Assessment Activity</b>	<b>Assessment criteria:</b>
<b>Preparation</b> 1. Demonstrate knowledge of legal requirements and safety regulations	<ul style="list-style-type: none"> <li>- Awareness of any safety implications imposed by Risk Assessment on the machine and the operation</li> <li>- Awareness of statutory guarding requirements</li> <li>- Awareness of statutory regulations when in operation or in transport on public highway</li> <li>- Lifting operations and lifting equipment regulations (LOLER)</li> <li>- Provision and use of work equipment regulations (PUWER)</li> </ul>
2. Demonstrate knowledge of requirements to safeguard the environment	Awareness of statutory requirements under control of pollution: <ul style="list-style-type: none"> <li>- Fuel spillage/storage</li> <li>- Erosion</li> <li>- Oil/leakages</li> <li>- Time of year</li> <li>- Water contamination</li> </ul>
3. Check power unit and plough combination are suited to the work being undertaken	<ul style="list-style-type: none"> <li>- Plough type</li> <li>- Review type of site and work</li> <li>- Wheel / track width (as applicable)</li> <li>- Machine attachment and fitting check</li> <li>- Manufactures guidance in the machine operating instruction manual are followed</li> </ul>
4. Check the condition and security of the plough and its components (Both single and double mouldboard)	<ul style="list-style-type: none"> <li>- Mouldboards and shares</li> <li>- Safety features</li> <li>- Control lever mode of operation clearly marked</li> <li>- Plough attachment</li> <li>- Examine the machine for signs of wear and damage</li> <li>- Operators checklists</li> </ul>
5. Lubricate the machine as instructed in the operators manual	<ul style="list-style-type: none"> <li>- All lubrication points identified</li> <li>- Use of the machine operators manual to identify how frequently lubrication should be undertaken</li> <li>- Grease lubrication points (as required)</li> <li>- Check oil levels</li> <li>- Recommended lubricants</li> </ul>
6. Demonstrate knowledge of suitable sites for ploughing	<ul style="list-style-type: none"> <li>- Mineral soils, peats</li> <li>- Adequate soil depths</li> <li>- Natural drainage via slope or soil profile</li> <li>- Ploughing methods used to minimise soil erosion</li> <li>- Effect of vegetation and other surface trash on operation</li> <li>- Desired planting positions</li> </ul>
7. Demonstrate knowledge of site planning and safe operation on range of site types including peat and mineral soils of variable terrain.	<ul style="list-style-type: none"> <li>- Planning and operational systems appropriate to site conditions, one way and two way working, single/multiple ribbon ploughing</li> <li>- Safe operation on steep slopes, turning, stability and traction</li> <li>- Poor traction caused by obstacles, tree stumps, boulders and other surface trash</li> <li>- Poor traction caused by varying soil and surface conditions</li> <li>- Wayleaves (electricity, telephone, gas)</li> </ul>
8. Demonstrate knowledge of safety precautions and requirements when working on sites with public access	<ul style="list-style-type: none"> <li>- Adequate warning signs</li> <li>- Safe working distances</li> <li>- Possible problems are identified when working along side public rights of way</li> <li>- The right of way is maintained</li> <li>- Ensure all footpaths are repaired and safe to be used before the signs are removed and the site is left</li> </ul>

<b>Site Work</b>	
<b>Plough an Area of Site with either a Single Mouldboard plough or Double Mouldboard Plough</b>	
<b>Assessment Activity</b>	<b>Assessment criteria:</b>
9. Set the plough and undertake minor adjustment to obtain an acceptable standard of work	<ul style="list-style-type: none"> <li>- Inspect site for hazards: power cables, drainage outfalls, soft banks etc.</li> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures are observed for moving the machine during work</li> <li>- Suitable profile and fall obtained</li> <li>- Rate of work suited to site conditions and machine capabilities</li> </ul>
10. Plough an area producing an acceptable standard of work	<ul style="list-style-type: none"> <li>- Ploughing speed</li> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures are observed for moving the machine during work</li> <li>- Suitable profile and falls obtained</li> <li>- Rate of work suited to site conditions and machine capabilities</li> </ul>
11. Parking machine	<ul style="list-style-type: none"> <li>- Safe position on site chosen</li> <li>- Controls and attachments in neutral or lower to the ground</li> <li>- Parking brake applied</li> <li>- Engine off</li> <li>- Key removed</li> </ul>
12. <b>Completion</b> Demonstrate knowledge of cleaning, servicing and storage	<ul style="list-style-type: none"> <li>- Removal of soil</li> <li>- Use of operators instructions</li> <li>- Inspection and replacement of worn parts</li> <li>- Report defects</li> </ul>

<b>FMO6.05 - Moulder (Continuous Acting)</b>	
<b>Assessment Activity</b>	<b>Assessment criteria:</b>
<b>Preparation</b> 1. Demonstrate knowledge of legal requirements and safety regulations	<ul style="list-style-type: none"> <li>- Awareness of any safety implications imposed by Risk Assessment on the machine and the operation</li> <li>- Awareness of statutory guarding requirements</li> <li>- Awareness of statutory regulations when in operation or in transport on public highway</li> <li>- Lifting Operations and Lifting Equipment Regulations (LOLER)</li> <li>- Provision and Use of Work Equipment Regulations (PUWER)</li> </ul>
2. Demonstrate knowledge of requirements to safeguard the environment	Awareness of statutory requirements under control of pollution: <ul style="list-style-type: none"> <li>- Fuel spillage/storage</li> <li>- Erosion</li> <li>- Oil/leakages</li> <li>- Time of year</li> <li>- Water contamination</li> </ul>
3. Check power unit	<ul style="list-style-type: none"> <li>- Power unit and moulder compatibility</li> <li>- Wheel / track width (as applicable)</li> <li>- Machine attachment and fitting check linkage, assister rams etc.</li> </ul>
4. Check the machine for correct operation and adjustment following the manufacturers operating instructions	<ul style="list-style-type: none"> <li>- Attachment</li> <li>- Initial settings</li> <li>- Machine safety features e.g. Shearbolts</li> <li>- Examine the machine for signs of wear and damage</li> <li>- Check condition of tines</li> <li>- Check condition of flip bucket and operating mechanism (where applicable)</li> <li>- Operators checklists</li> </ul>
5. Lubricate the machine as instructed in the operators manual	<ul style="list-style-type: none"> <li>- All lubrication points identified</li> <li>- Use of the machine operators manual to identify how frequently lubrication should be undertaken</li> <li>- Grease lubrication points (as required)</li> <li>- Check oil levels</li> <li>- Recommend lubricants</li> </ul>
6. Demonstrate knowledge of suitable sites for mounding	<ul style="list-style-type: none"> <li>- Mineral soils, peats</li> <li>- Adequate soil depths</li> <li>- Natural drainage via slope or soil profile</li> <li>- Mounding methods used to minimise soil erosion</li> <li>- Effect of vegetation and other surface trash on operation</li> <li>- Desired planting positions</li> </ul>
7. Demonstrate knowledge of planning and mounding operations on peat and mineral soil of variable terrain.	<ul style="list-style-type: none"> <li>- Planning and operational systems appropriate to site conditions, one way and two way working</li> <li>- Safe operation on steep slopes, turning, stability and traction</li> <li>- Poor traction caused by obstacles, tree stumps, boulders and other surface trash</li> <li>- Poor traction caused by varying soil and surface conditions</li> <li>- Wayleaves (electricity, telephone, gas)</li> </ul>

<b>Assessment Activity</b>		<b>Assessment criteria:</b>
8.	Demonstrate knowledge of safety precautions and requirements when working on sites with public access	<ul style="list-style-type: none"> <li>- Adequate warning signs</li> <li>- Safe working distances</li> <li>- Possible problems are identified when working along side public rights of way</li> <li>- The right of way is maintained</li> <li>- Ensure all footpaths are repaired and safe to be used before the signs are removed and the site is left</li> </ul>
9.	<b>Site Work</b> Set the machine on site to achieve the required outcome	<ul style="list-style-type: none"> <li>- Standard of work achieved acceptable</li> <li>- Depth of work acceptable to achieve the required outcome</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Inspect site for hazards: power cables, drainage outfalls, soft banks etc.</li> </ul>
10.	Form mounds to a suitable profile	<ul style="list-style-type: none"> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures to be observed for moving the machine during work</li> <li>- Suitable profile</li> <li>- Rate of work suited to site conditions and machine capabilities</li> </ul>
11.	Parking machine	<ul style="list-style-type: none"> <li>- Safe position on site chosen</li> <li>- Controls and attachments in neutral or lower to the ground</li> <li>- Parking brake applied</li> <li>- Engine off</li> <li>- Key removed</li> </ul>
12.	<b>Completion</b> Demonstrate knowledge of cleaning, servicing and storage	<ul style="list-style-type: none"> <li>- Removal of soil</li> <li>- Use of operators instructions</li> <li>- Inspection and replacement of worn parts</li> <li>- Use of rust inhibitors and reasons why</li> <li>- Report defects</li> </ul>

<b>FMO6.06 - Patch Scarification</b>	
<b>Assessment Activity</b>	<b>Assessment criteria</b>
<b>Preparation</b> 1. Demonstrate knowledge of legal requirements and safety regulations	<ul style="list-style-type: none"> <li>- Awareness of any safety implications imposed by Risk Assessment on the machine and the operation</li> <li>- Awareness of statutory guarding requirements when in operation or in transport highway</li> <li>- Awareness of statutory guarding requirements</li> <li>- Lifting operations and lifting equipment regulations (LOLER)</li> <li>- Provision and use of work equipment regulations (PUWER)</li> </ul>
2. Demonstrate knowledge of requirements to safeguard the environment	Awareness of statutory requirements under control of pollution: <ul style="list-style-type: none"> <li>- Fuel spillage/storage</li> <li>- Erosion</li> <li>- Oil/leakages</li> <li>- Time of year</li> <li>- Water contamination</li> </ul>
3. Check power unit	<ul style="list-style-type: none"> <li>- Power unit and patch scarifier compatibility</li> <li>- Wheel / track width (as applicable)</li> <li>- Machine attachment and fitting check linkage, assister rams etc.</li> </ul>
4. Check the machine for correct operation and adjustment following the manufacturers operating instructions	<ul style="list-style-type: none"> <li>- Attachment</li> <li>- Initial settings</li> <li>- Machine safety features e.g.</li> <li>- Examine the machine for signs of wear and damage</li> <li>- Tine condition</li> <li>- Check condition of chain drives and tyres</li> <li>- Operators checklists</li> </ul>
5. Lubricate the machine as instructed in the operators manual	<ul style="list-style-type: none"> <li>- All lubrication points identified</li> <li>- Use of the machine operators manual to identify how frequently lubrication should be undertaken</li> <li>- Grease lubrication points (as required)</li> <li>- Check oil levels</li> <li>- Recommended lubricants</li> </ul>
6. Demonstrate knowledge of suitable sites for patch scarification	<ul style="list-style-type: none"> <li>- Mineral soils, peats</li> <li>- Adequate soil depths</li> <li>- Natural drainage via slope or soil profile</li> <li>- Scarification methods used to minimise soil erosion</li> <li>- Effect of vegetation and other surface trash on operation</li> <li>- Desired planting positions</li> </ul>
7. Demonstrate knowledge of site planning and safe operation on range of site types including peat and mineral soil of variable terrain	<ul style="list-style-type: none"> <li>- Planning and operational systems appropriate to site conditions, one way and two way working</li> <li>- Safe operation on steep slopes, turning, stability and traction</li> <li>- Poor traction caused by obstacles, tree stumps, boulders and other surface trash</li> <li>- Poor traction caused by varying soil and surface conditions</li> <li>- Wayleaves (electricity, telephone, gas)</li> </ul>

<b>Assessment Activity</b>		<b>Assessment criteria:</b>
8.	Demonstrate knowledge of safety precautions and requirements when working on sites with public access	<ul style="list-style-type: none"> <li>- Adequate warning signs</li> <li>- Safe working distances</li> <li>- Possible problems are identified when working along side public rights of way</li> <li>- The right of way is maintained</li> <li>- Ensure all footpaths are repaired and safe to be used before the signs are removed and the site is left</li> </ul>
9.	Set the machine on site to achieve the required outcome	<ul style="list-style-type: none"> <li>- Inspect site for hazards: power cables, drainage outfalls, soft banks etc.</li> <li>- Standard of work achieved acceptable</li> <li>- Depth of work acceptable to achieve the required outcome</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Patches produced</li> <li>- Appropriate action taken in soft spots e.g. Machine dropped and winched back to the tractor</li> </ul>
10.	Produce scarified patches to a suitable profile to encourage tree growth and establishment	<ul style="list-style-type: none"> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures to be observed for moving the machine during work</li> <li>- Suitable patch profile</li> <li>- Rate of work suited to site conditions and machine capabilities</li> </ul>
11.	Park machine	<ul style="list-style-type: none"> <li>- Safe position on site chosen</li> <li>- Controls and attachments in neutral or lower to the ground</li> <li>- Parking brake applied</li> <li>- Engine off</li> <li>- Key removed</li> </ul>
12.	<b>Completion</b> Demonstrate knowledge of cleaning, servicing and storage	<ul style="list-style-type: none"> <li>- Removal of soil</li> <li>- Use of operators instructions</li> <li>- Inspection and replacement of worn parts</li> <li>- Use of rust inhibitors and reasons why</li> <li>- Report defects</li> </ul>

<b>FMO6.07 – Disc Scarification (Non-Powered)</b>	
<b>Assessment Activity</b>	<b>Assessment criteria:</b>
<b>Preparation</b> 1. Demonstrate knowledge of legal requirements and safety regulations	<ul style="list-style-type: none"> <li>- Awareness of any safety implications imposed by Risk Assessment on the machine and the operation</li> <li>- Awareness of statutory guarding requirements</li> <li>- Awareness of statutory regulations when in operation or in transport on public highway</li> <li>- Lifting Operations and Lifting Equipment Regulations (LOLER)</li> <li>- Provision and Use of Work Equipment Regulations (PUWER)</li> </ul>
2. Demonstrate knowledge of requirements to safeguard the environment	Awareness of statutory requirements under control of pollution: <ul style="list-style-type: none"> <li>- Fuel spillage/storage</li> <li>- Erosion</li> <li>- Oil/leakages</li> <li>- Time of year</li> <li>- Water contamination</li> </ul>
3. Check power unit	<ul style="list-style-type: none"> <li>- Power unit and non-powered disc scarifier compatibility</li> <li>- Wheel / track width (as applicable)</li> <li>- Machine attachment and fitting check linkage, assister rams etc.</li> </ul>
4. Check the machine for correct operation and adjustment following the manufacturers operating instructions	<ul style="list-style-type: none"> <li>- Attachment</li> <li>- Initial settings</li> <li>- Machine safety features e.g.</li> <li>- Examine the machine for signs of wear and damage</li> <li>- Teeth condition</li> <li>- Disc angle adjustment</li> <li>- Operators checklists</li> </ul>
5. Lubricate the machine as instructed in the operators manual	<ul style="list-style-type: none"> <li>- All lubrication points identified</li> <li>- Use of the machine operators manual to identify how frequently lubrication should be undertaken</li> <li>- Grease lubrication points (as required)</li> <li>- Check oil levels</li> <li>- Recommended lubricants</li> </ul>
6. Demonstrate knowledge of suitable sites for disc scarification	<ul style="list-style-type: none"> <li>- Mineral soils, peats</li> <li>- Adequate soil depths</li> <li>- Natural drainage via slope or soil profile</li> <li>- Scarification methods used to minimise soil erosion</li> <li>- Effect of vegetation and other surface trash on operation</li> <li>- Desired planting positions</li> </ul>
7. Demonstrate knowledge of site planning and safe operation on range of site types including peat and mineral soil of variable terrain	<ul style="list-style-type: none"> <li>- Planning and operational systems appropriate to site conditions, one way and two way working</li> <li>- Safe operation on steep slopes, turning, stability and traction</li> <li>- Poor traction caused by obstacles, tree stumps, boulders and other surface trash</li> <li>- Poor traction caused by varying soil and surface conditions</li> <li>- Wayleaves (electricity, telephone, gas)</li> </ul>

<b>Assessment Activity</b>		<b>Assessment criteria:</b>
8.	Demonstrate knowledge of safety precautions and requirements when working on sites with public access	<ul style="list-style-type: none"> <li>- Adequate warning signs</li> <li>- Safe working distances</li> <li>- Possible problems are identified when working along side the public rights of way</li> <li>- The right of way is maintained</li> <li>- Ensure all footpaths are repaired and safe to be used before the signs are removed and the site is left</li> </ul>
9.	Set the machine on site to achieve the required outcome	<ul style="list-style-type: none"> <li>- Standard of work achieved acceptable</li> <li>- Depth of work acceptable to achieve the required outcome</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Trash burial</li> <li>- Disc angle is set to produce the required standard of work:</li> <li>- Ploughing</li> <li>- Mid setting</li> <li>- Scarifying</li> </ul>
10.	Scarify and area producing an acceptable standard of work	<ul style="list-style-type: none"> <li>- Operating speed</li> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures are observed for moving the machine during work</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Brush dispersal</li> <li>- Burying surface trash</li> <li>- Trench spacing</li> <li>- Approach to working on slopes, reversing up or working uphill and the possible implication of using both systems</li> <li>- Side slopes and effective machine operation</li> <li>- Wet site condition and the effect on machine suggested working limits</li> </ul>
11.	Parking machine	<ul style="list-style-type: none"> <li>- Safe position on site chosen</li> <li>- Controls and attachments in neutral or lower to the ground</li> <li>- Parking brake applied</li> <li>- Engine off</li> <li>- Key removed</li> </ul>
12.	Demonstrate knowledge of cleaning, servicing and storage	<ul style="list-style-type: none"> <li>- Removal of soil</li> <li>- Use of operators instructions</li> <li>- Inspection and replacement of worn parts</li> <li>- Use of rust inhibitors and reasons why</li> <li>- Report defects</li> </ul>

<b>FMO6.08 - Disc Scarification (Powered)</b>	
<b>Assessment Activity</b>	<b>Assessment criteria:</b>
<b>Preparation</b>	
1. Demonstrate knowledge of legal requirements and safety regulations	<ul style="list-style-type: none"> <li>- Awareness of any safety implications imposed by Risk Assessment on the machine and the operation</li> <li>- Awareness of statutory guarding requirements</li> <li>- Awareness of statutory regulations when in operation or in transport on public highway</li> <li>- Lifting Operations and Lifting Equipment Regulations (LOLER)</li> <li>- Provision and Use of Work Equipment Regulations (PUWER)</li> </ul>
2. Demonstrate knowledge of requirements to safeguard the environment	<p>Awareness of statutory requirements under control of pollution:</p> <ul style="list-style-type: none"> <li>- Fuel spillage/storage</li> <li>- Erosion</li> <li>- Oil/leakages</li> <li>- Time of year</li> <li>- Water contamination</li> </ul>
3. Check the machine for correct operation and adjustment following the manufacturers operating instructions	<ul style="list-style-type: none"> <li>- Attachment</li> <li>- Initial settings</li> <li>- Machine safety features e.g. Examine the machine for signs of wear and damage</li> <li>- Teeth condition</li> <li>- Disc angle adjustment</li> <li>- Hydraulic drive system for leaks etc.</li> <li>- Operators checklists</li> </ul>
4. Lubricate the machine as instructed in the operators manual	<ul style="list-style-type: none"> <li>- All lubrication points identified</li> <li>- Use of the machine operators manual to identify how frequently lubrication should be undertaken</li> <li>- Grease lubrication points (as required)</li> <li>- Check oil levels</li> <li>- Recommended lubricants</li> </ul>
5. Demonstrate knowledge of safety precautions and requirements when working on sites with public access	<ul style="list-style-type: none"> <li>- Adequate warning signs</li> <li>- Safe working distances</li> <li>- Possible problems are identified when working along side public rights of way</li> <li>- The right of way is maintained</li> <li>- Ensure all footpaths are repaired and safe to be used before the signs are removed and the site is left</li> </ul>
6. Demonstrate knowledge of suitable sites for disc scarification	<ul style="list-style-type: none"> <li>- Mineral soils, peats</li> <li>- Adequate soil depths</li> <li>- Natural drainage via slope or soil profile</li> <li>- Scarification methods used to minimise soil erosion</li> <li>- Effect of vegetation and other surface trash on operation</li> <li>- Desired planting positions</li> </ul>
7. Demonstrate knowledge of site planning and safe operation on range of site types including peat and mineral soil of variable terrain	<ul style="list-style-type: none"> <li>- Planning and operational systems appropriate to site conditions, one way and two way working</li> <li>- Safe operation on steep slopes, turning, stability and traction</li> <li>- Poor traction caused by obstacles, tree stumps, boulders and other surface trash</li> <li>- Poor traction caused by varying soil and surface conditions</li> <li>- Wayleaves (electricity, telephone, gas)</li> </ul>

<b>Assessment Activity</b>		<b>Assessment criteria:</b>
8.	<b>Site work</b> Set the machine on site to achieve the required outcome	<ul style="list-style-type: none"> <li>- Standard of work achieved acceptable</li> <li>- Depth of work acceptable to achieve the required outcome</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Trash burial</li> <li>- Disc angle is set to produce the required standard of work:</li> <li>- Ploughing – deepest cultivation trench</li> <li>- Mid settings – 60 / 80cm screef and reasonable brash clearance on full power</li> <li>- Scarifying – shallow screef / best setting for clearing brash. Maximum scarification</li> </ul>
9.	Scarify an area producing an acceptable standard of work for the site and disc setting used	<ul style="list-style-type: none"> <li>- Operating speed</li> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures are observed for moving the machine during work</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Brash dispersal</li> <li>- Burying surface trash</li> <li>- Trench spacing</li> <li>- Approach to working on slopes, reversing up or working uphill and the possible implication of using both systems</li> <li>- Side slopes and effective machine operation</li> <li>- Wet site condition and the effect on machine suggested working limits</li> </ul>
10.	Park machine	<ul style="list-style-type: none"> <li>- Safe position on site chosen</li> <li>- Controls and attachments in neutral or lower to the ground</li> <li>- Parking brake applied</li> <li>- Engine off</li> <li>- Key removed</li> </ul>
11.	<b>Completion</b> Demonstrate knowledge of cleaning, servicing and storage	<ul style="list-style-type: none"> <li>- Removal of soil</li> <li>- Use of operators instructions</li> <li>- Inspection and replacement of worn parts</li> <li>- Use of rust inhibitors and reasons why</li> <li>- Report defects</li> </ul>

<b>FMO6.09 - Planting (Non – Mechanical Placement)</b>	
<b>Assessment Activity</b>	<b>Assessment criteria:</b>
<b>Preparation</b> 1. Demonstrate knowledge of legal requirements and safety regulations	<ul style="list-style-type: none"> <li>- Awareness of any safety implications imposed by Risk Assessment on the machine and the operation</li> <li>- Awareness of statutory guarding requirements</li> <li>- Awareness of statutory regulations when in operation or in transport on public highway</li> <li>- Lifting Operations and Lifting Equipment Regulations (LOLER)</li> <li>- Provision and Use of Work Equipment Regulations (PUWER)</li> </ul>
2. Demonstrate knowledge of requirements to safeguard the environment	<ul style="list-style-type: none"> <li>- Awareness of any statutory requirements under control of pollution</li> <li>- Fuel spillage/storage</li> <li>- Erosion</li> <li>- Oil/leakages</li> <li>- Time of year</li> <li>- Water contamination</li> </ul>
3. Check the power unit and machine compatibility for safe working systems	<ul style="list-style-type: none"> <li>- Tractor weight</li> <li>- Stability</li> <li>- Machine attachment</li> <li>- Engine power requirements and condition</li> <li>- Guarding</li> <li>- Operator protection roll over (plant placement)</li> <li>- Driver / plant placement operator(s) communication system</li> </ul>
4. Check wheel track setting in relation to tree row widths	<ul style="list-style-type: none"> <li>- Compatibility of wheel track width to tree row widths</li> <li>- Consideration given to most stable wheel settings for site terrain</li> </ul>
5. Check the machine for correct operation and adjustment following the manufacturers operating instructions	<ul style="list-style-type: none"> <li>- Attachment</li> <li>- Initial settings</li> <li>- Machine safety features e.g. Shearbolts</li> <li>- Examine the machine for signs of wear and damage</li> <li>- Share</li> <li>- Adjust coulter setting (where applicable)</li> <li>- Adjust working position to suit plant placement operators e.g. Seating position, plant trays etc.</li> <li>- Check communication system are effective</li> <li>- Operators checklist</li> </ul>
6. Lubricate the machine as instructed in the operators manual	<ul style="list-style-type: none"> <li>- All lubrication points identified</li> <li>- Use of the machine operators manual to identify how frequently lubrication should be undertaken</li> <li>- Grease lubrication points (as required)</li> <li>- Check oil levels</li> <li>- Recommended lubricants</li> </ul>

<b>Assessment Activity</b>		<b>Assessment criteria:</b>
7.	Demonstrate knowledge of the safe and efficient operation of the machine and power unit on site	<ul style="list-style-type: none"> <li>- Site survey</li> <li>- Systems of operation appropriate to the site being planted</li> <li>- Steep slopes</li> <li>- Safely turning on slopes</li> <li>- Wayleaves (electricity / telephone / gas)</li> <li>- Obstacles, poor traction and surface trash</li> <li>- Possible problems with stability when in use</li> <li>- Varying soil and surface conditions</li> <li>- Plant material supply to the planter in an efficient and safe manner</li> <li>- Side slopes and effective machine operation</li> <li>- Wet site condition and the effect on machine suggested working limits</li> <li>- Machine guarding</li> </ul>
8.	Demonstrate knowledge of safety precautions and requirements when working on sites with public access	<ul style="list-style-type: none"> <li>- Adequate warning signs</li> <li>- Safe working distances</li> <li>- Possible problems are identified when working along side public rights of way</li> <li>- The right of way is maintained</li> <li>- Ensure all footpaths are repaired and safe to be used before the signs are removed and the site is left</li> </ul>
9.	Demonstrate knowledge of controlling tree space within the row	<ul style="list-style-type: none"> <li>- Audible sound</li> <li>- Marked positions</li> <li>- Flashing light</li> </ul>
<b>Site Work</b>		
10.	Set the machine on site to achieve the required outcome	<ul style="list-style-type: none"> <li>- Standard of work achieved acceptable</li> <li>- Planting depth, firmness, position (upright) and spacing are acceptable to achieve successful tree establishment</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Undertake test run to judge machine performance under site conditions</li> <li>- Adjust share depth, width and press</li> <li>- Wheel firming ability (as applicable)</li> </ul>
11.	Plant an area producing an acceptable standard of work for the site and material being planted	<ul style="list-style-type: none"> <li>- Planting speed</li> <li>- Consideration of safety of plant placement operatives</li> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures are observed for moving the machine during work</li> <li>- Plant placement achieved to the required standard</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Wet site condition and the effect on machine suggested working limits</li> </ul>
12.	Parking machine	<ul style="list-style-type: none"> <li>- Safe position on site chosen</li> <li>- Controls and attachments in neutral or lower to the ground</li> <li>- Parking brake applied</li> <li>- Engine off</li> <li>- Key removed</li> </ul>
<b>Completion</b>		
13.	Demonstrate knowledge of cleaning, servicing and storage	<ul style="list-style-type: none"> <li>- Removal of soil</li> <li>- Use of operators instructions</li> <li>- Inspection and replacement of worn parts</li> <li>- Use of rust inhibitors and reasons why</li> <li>- Report defects</li> </ul>

**FMO6.10 - Mechanical Flail/Mulcher**

<b>Assessment Activity</b>	<b>Assessment criteria:</b>
<p><b>PREPARATION</b></p> <p>1. Demonstrate knowledge of legal requirements and safety regulations</p>	<ul style="list-style-type: none"> <li>- Awareness of any safety implications imposed by risk assessment on the machine and the operation</li> <li>- Awareness of FASTCo guides and the relevance of their contents to the machine and the operation</li> <li>- Awareness of statutory regulations when transporting on a public highway</li> <li>- Lifting operations and lifting equipment regulations (LOLER)</li> <li>- Provision and use of work equipment regulations (PUWER)</li> </ul>
<p>2. Demonstrate knowledge of requirements to safeguard the environment</p>	<ul style="list-style-type: none"> <li>- Awareness of statutory requirements under control of pollution:</li> <li>- Fuel spillage/storage</li> <li>- Erosion</li> <li>- Oil/leakages</li> <li>- Time of year</li> <li>- Water contamination</li> </ul>
<p>3. Check power unit</p>	<ul style="list-style-type: none"> <li>- Power unit and flail/swipe</li> <li>- Compatibility</li> <li>- Wheel/track width (as applicable)</li> <li>- Machine attachment and fitting check linkage, assister rams etc.</li> <li>- Select a suitable mode of control e.g. Correct hydraulic service to meet the manufacturers guidance in the machine operating instructions</li> </ul>
<p>4. Check the machine for correct operation and adjustment following the manufacturers operating instructions</p>	<ul style="list-style-type: none"> <li>- Attachment</li> <li>- Initial settings</li> <li>- Machine safety features:</li> <li>- Shearbolts</li> <li>- Slip clutch</li> <li>- Condition and balance of blade</li> <li>- Chain length</li> <li>- Machine guarding</li> <li>- Examine the machine for signs of wear and damage</li> <li>- Operators checklists</li> </ul>
<p>5. Demonstrate knowledge of safety of the machine power unit combinations on site</p>	<ul style="list-style-type: none"> <li>- Site survey</li> <li>- Systems of operation appropriate to the site being cleaned</li> <li>- Steep slopes</li> <li>- Safely turning on slopes</li> </ul>
<p>6. Demonstrate knowledge of safe operation on site</p>	<ul style="list-style-type: none"> <li>- Site survey</li> <li>- Systems of operation appropriate to the site being ploughed</li> <li>- Steep slopes</li> <li>- Safely turning on slopes</li> <li>- Tree stumps and other site risks</li> <li>- Way leaves (electricity/telephone/gas)</li> <li>- Obstacles, poor traction and surface trash</li> <li>- Possible problems with stability when in use</li> <li>- Varying soil and surface conditions</li> </ul>
<p>7. Demonstrate knowledge of safety precautions and requirements when working on sites with public access</p>	<ul style="list-style-type: none"> <li>- Adequate warning signs</li> <li>- Safe working distances</li> <li>- Possible problems are identified when working alongside public rights of way</li> <li>- The right of way is maintained</li> <li>- Ensure all footpaths are repaired and safe to be used before the signs are removed and the site is left</li> </ul>

<b>Assessment Activity</b>		<b>Assessment criteria:</b>
8.	<b>Site Work</b> Set the machine on site to achieve the required outcome	<ul style="list-style-type: none"> <li>- Standard of work achieved acceptable</li> <li>- Rate of work suited to site conditions and machine capabilities</li> </ul>
9.	Clean an area producing an acceptable standard of work for the site flail/mulcher being used	<ul style="list-style-type: none"> <li>- Cleaning speed</li> <li>- Efficient smooth operation of machine</li> <li>- Safe procedures are observed for moving the machine during work</li> <li>- Rate of work suited to site conditions and machine capabilities</li> <li>- Approach to working on slopes</li> <li>- Side slopes and effective machine operation</li> <li>- Wet site conditions and the effect on machine suggested working limits</li> <li>-</li> </ul>
10.	<b>Completion</b> Demonstrate knowledge of cleaning, servicing and storage	<ul style="list-style-type: none"> <li>- Removal of debris</li> <li>- Use of operators instructions</li> <li>- Inspection and replacement of worn parts</li> <li>- Use of rust inhibitors and reasons why</li> <li>- Report defects</li> </ul>

#### **FMO6. 11 - Chemical Treatment**

Chemical (Candidates who hold PA1 and PA2 or PA4 in NPTC Certificate of Competence in the Use of Pesticides will be deemed to have met the requirements of this sub unit).

## FMO6.12 - Stump Protection

Hydraulic Nozzle/Chain Saw Bar Application Equipment attached to a Forest Machine

### Learning outcomes:

Candidate will be able to:

1. Transport fluid from central site to work site
2. Prepare the chosen applicator for work and operate it without risk to themselves, other people and the environment
3. Carry out routine maintenance on the chosen applicator
4. Carry out the correct procedure for cleaning personal protective equipment and the chosen applicator

### Safe Practice:

Operating the equipment in such a way as to put the candidate, Assessor or the environment at risk will cause the candidate to fail the test. All equipment must be of the standard required under current Health & Safety Legislation.

### Validation of Equipment:

Commercially available equipment, such as may be fitted to a tree harvester.

### Site:

Work site appropriate to the normal work situation of the candidate.

### Assessment:

The Assessor may be an appropriately qualified NPTC Forest Machine Operator Assessor or an appropriately qualified NPTC Pesticides Assessor.

The assessment must be conducted as it relates to the candidate's normal working situation.

### Facilities and Equipment required to run the assessment

Access to central storage point for Stump Protection Fluid  
 Application Equipment appropriate to background of the candidate  
 Serviceable PPE  
 Washing facilities

## FMO6.12 - Stump Protection

Assessment Activity	Assessment criteria:
<b>PART I – TRANSPORT</b>	
1. Read and interpret product label	<ul style="list-style-type: none"> <li>- Interpretation of product label</li> <li>- Recognition of Hazard symbols</li> <li>- Appropriate PPE</li> </ul>
2. Demonstrate knowledge of fluid transport from central site to work site	<ul style="list-style-type: none"> <li>- Transfer of fluid from bulk storage to container</li> <li>- Safe location of fluid in transporting vehicle</li> <li>- Safe spill-free transport to work site</li> <li>- On site storage of container</li> </ul>
3. Fill applicator from transport module	<ul style="list-style-type: none"> <li>- Appropriate PPE</li> <li>- Safe physical handling of containers</li> <li>- Use of funnels, pumps etc</li> <li>- Risks associated with spillage</li> </ul>
<b>PART II – PREPARATION &amp; OPERATION OF APPLICATION EQUIPMENT ATTACHED TO A FOREST MACHINE</b>	
4. Identify and inspect controls and components	<ul style="list-style-type: none"> <li>- Integral filling aids</li> <li>- Filters</li> <li>- Check valves</li> <li>- Hose runs</li> <li>- Pump and actuating mechanism</li> <li>- Nozzle/guide bar delivery type</li> </ul>

<b>Assessment Activity</b>	<b>Assessment criteria:</b>
5. Operate applicator in a safe and efficient manner	<ul style="list-style-type: none"> <li>- Avoid operator contamination when inspecting/assessing</li> <li>- Accurate application of stump protection fluid on at least 2 stumps</li> </ul>
<b>PART III – DECONTAMINATION, RECORDING &amp; ENVIRONMENTAL FACTORS</b>	
6. Demonstrate knowledge of cleaning and decontamination of applicator	<ul style="list-style-type: none"> <li>- Safe cleaning site</li> <li>- Thorough washing with water and suitable cleaning agent</li> <li>- Safe disposal of container/tank washings by approved methods</li> </ul>
7. Demonstrate an awareness of factors to be recorded	<ul style="list-style-type: none"> <li>- Any suitable system to indicate total volume applied in a stated period for a stated area</li> </ul>
8. Demonstrate knowledge of environmental and other factors	<ul style="list-style-type: none"> <li>- The assessor to question the candidate to ensure knowledge of risks to the environment, typically:-</li> <li>- Drift related to wind speed</li> <li>- Off target contamination</li> <li>- Waterways</li> <li>- Humans/animals</li> <li>- Warning notices/site barriers</li> <li>- On site storage</li> </ul>