

LEVEL 2
CERTIFICATE OF COMPETENCE
IN
CHAIN SAW AND RELATED OPERATIONS
ASSESSMENT SCHEDULE

CS40
CARRY OUT PRUNING OPERATIONS

(Pre-requisite: CS30, CS31, Climb Trees and Perform Aerial Rescue + CS39)

Maximum recommended guide bar length: 380mm (15")

This unit covers the use of the chainsaw and/or other pruning tools working from a rope and harness in conjunction with a ground person in medium sized open grown trees

NPTC LEVEL 2 CERTIFICATE OF COMPETENCE IN CHAIN SAW AND RELATED OPERATIONS

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

The result of each assessment activity is evaluated against the following criteria:

- 4 = Meets or exceeds the assessment criteria by displaying a level of practical performance and/or underpinning knowledge, with no 'minor' or 'critical' faults. (Competent).
- 3 = Meets the requirements of the assessment criteria for both the practical performance and the underpinning knowledge, with some 'minor' faults but no 'critical' faults. (Competent).
- 2 = Does not fully satisfy the requirements of the assessment criteria, being unable to perform the practical task satisfactorily or being deficient in underpinning knowledge leading to the recording of minor faults. (Not yet competent).
- 1 = 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 leading to the recording of a critical fault. (Not yet competent).

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.

Safe Practice

At all times during the assessment, the chainsaw and other equipment must be operated in a safe manner in accordance with industry best practice, whatever the task being carried out.

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 chain saws used in the assessments must comply with Arboriculture and Forestry Advisory Group (AFAG) Safety Guide 301 in terms of safety features, and be a model and size suited to the task(s) required.
4. Recommended guide bar lengths should be observed, although variations may be accepted at the discretion of the Assessor where this is appropriate to the task.
5. Candidates should be familiar with the saw that they are going to use.
6. A spare working chainsaw must be available.
7. Appropriate Personal Protective Equipment (PPE) must be worn at all times. All PPE used must comply with AFAG Safety Guides 301, 401, 801, Health and Safety Executive publications and current legal requirements in terms of specification and use.
8. A First Aid kit meeting current regulations, of the appropriate size for the number of persons on site, must be available.
9. The candidate must be equipped with a personal first aid kit.
10. 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.
11. Any necessary permissions must have been granted, and notifications made as appropriate: (e.g. Local Planning Authority, Forestry Commission, Forest Enterprise, Highways Authority, Private owners, Statutory undertakers, Police, etc).
12. All equipment being used for this assessment must comply with relevant requirements of the Provision and Use of Work Equipment Regulations (PUWER) 1998.
13. Information may be sought from the relevant operator manuals or any other appropriate training or safety publication.
14. The current Regulations for transport, handling and storage of fuel and oils must be complied with.
15. Provision must be made to avoid the risk of environmental pollution.
16. 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.

If these conditions are not observed this may result in the Candidate not meeting the required standard.

Complaints and Appeals

NPTC and its Assessment Centres have a formal Complaints and Appeals procedure. In the event of any dissatisfaction with the arrangements and conditions of assessment, the candidate should first contact the Assessment Centre through whom the assessment was arranged and submit the complaint in writing.

For further information on NPTC's Equal Opportunities Policy and Complaints and Appeals Procedures, please refer to www.nptc.org.uk

CS40 - CARRY OUT PRUNING OPERATIONS

Learning Outcomes

The candidate will be able to:

1. Identify, inspect and comment upon key parts of the equipment to be used.
2. Prepare the equipment for use ensuring the safety of themselves, other people and the environment.
3. Comment upon the structure, condition and properties of the tree(s) to be worked upon.
4. Use a chainsaw and other pruning tools whilst maintaining a working position within the crown of a tree using a rope and harness in conjunction with ground staff.

The assessment contains 2 compulsory parts as follows:

Part 1: Carry out Crown Thinning.

Part 2: Carry out Crown Reduction.

The candidate will be the climber and will be referred to as either the candidate or the climber in the following guidance.

Candidates must successfully achieve all Assessment Activities unless otherwise specified.

Assessment and site requirements:

- The Assessor must be able and equipped to carry out an aerial tree rescue.
- An experienced ground person must work under the direction of the candidate (the Assessor may act as the ground person).
- The assessment should be undertaken on one medium sized open grown tree(s) containing sufficient material to demonstrate crown thinning and crown reduction.
- The candidate should be equipped with a top or rear handled chainsaw in good condition with a maximum recommended guide bar length of 380mm (15").
- The candidate should be equipped with sufficient fuel and oil, appropriate to the make and model of the chainsaws, for the assessment.
- The candidate should ensure that the worksite is signed as appropriate.
- In addition to the relevant requirements of the Provision and Use of Work Equipment Regulations (PUWER) 1998, any ancillary equipment used for this assessment must also comply with relevant requirements of the Lifting Operations and Lifting Equipment Regulations (LOLER) 1998 where applicable.

Part 1: Carry out crown Thinning

ASSESSMENT ACTIVITIES	ASSESSMENT CRITERIA
<p>1. Demonstrate knowledge of what is involved in a Risk Assessment</p>	<p>Risk Assessment must be specific to:</p> <ul style="list-style-type: none"> - Site - Task - Machine <p>Risk Assessment must contain:</p> <ul style="list-style-type: none"> - Identified hazards - Evaluated risk - Control measures to be implemented - Emergency procedures <p>- Risk Assessment must be communicated to operator</p>
<p>2. Demonstrate knowledge of the legal and environmental factors that may be present on the work site.</p>	<p>Legal and environmental considerations could be:</p> <ul style="list-style-type: none"> - Tree Preservation Order - Conservation Area - Felling Licence - Nesting Birds - Bat Roosts - Presence of other valuable flora and fauna.
<p>3. Undertake a hazard assessment of the tree(s) to be worked upon.</p>	<p>The pre-climb inspection should look for:</p> <ul style="list-style-type: none"> - Evidence of cavities, decay or decay fungi - Deadwood and broken branches - Dead or flaking bark - V shaped unions - Cracks - Nesting insects - Timber characteristics of the tree species should be commented on - The presence of power lines or telephone wires - Targets and obstacles underneath the tree
<p>4. Brief the ground staff.</p>	<p>The climber should brief the ground staff about the following topics:</p> <ul style="list-style-type: none"> - The risk assessment. - The tree hazard evaluation. - The planned method and sequence of work. - Individual responsibilities. - Communication. - Emergency procedures.
<p>5. Achieve a working position and begin the thinning operation.</p>	<p>A working position is achieved:</p> <ul style="list-style-type: none"> - Anchor point established. - Supplementary anchor point established. - Proximity to work position achieved. - The climber directs the ground staff. <p>The tree is thinned to the agreed specification, taking into account:</p> <ul style="list-style-type: none"> - Sequence of operations. - Route within the tree crown. - Communication and control of ground staff. - Selection of branches for removal. - Removal of dead, dying and diseased material. - Removal of crossing branches. - Uniform removal of live branches. - Crown density reduced within the tolerance of the tree species. - General overall size and shape of the tree retained. - Accuracy of cuts. - Position of final pruning cuts. - Avoidance of damage to the retained parts of the tree. - Avoidance of damage to surrounding features. - No cut branches left hanging in the tree.
<p>6. Demonstrate knowledge of tree pruning operations.</p>	<ul style="list-style-type: none"> - Species and season influence pruning because some species 'bleed' heavily if pruned at certain times of year (e.g. Sycamore and Birch if pruned in the spring). <p>Likely responses to pruning operations would be:</p> <ul style="list-style-type: none"> - The over thinning of vigorous species will result in dense re-growth of shoots around the wound. - The over thinning of non vigorous species or those under stress may cause die-back and / or epicormic growth. - Light pruning to a strong growing point should stimulate healthy growth.

Part 2: Carry out Crown Reduction

ASSESSMENT ACTIVITIES	ASSESSMENT CRITERIA
1. Demonstrate knowledge of the legal and environmental factors that may be present on the work site.	Legal and environmental considerations could be: <ul style="list-style-type: none"> - Tree Preservation Order - Conservation Area - Felling Licence - Nesting Birds - Bat Roosts - Presence of other valuable flora and fauna.
2. Undertake a hazard assessment of the tree(s) to be worked upon.	The pre-climb inspection should look for: <ul style="list-style-type: none"> - Evidence of cavities, decay or decay fungi - Deadwood and broken branches - Dead or flaking bark - V shaped unions - Cracks - Nesting insects - Timber characteristics of the tree species should be commented on - The presence of power lines or telephone wires - Targets and obstacles underneath the tree
3. Brief the ground staff.	The climber should brief the ground staff about the following topics: <ul style="list-style-type: none"> - The risk assessment. - The tree hazard evaluation. - The planned method and sequence of work. - Individual responsibilities. - Communication. - Emergency procedures.
4. Achieve a working position and begin the reduction operation.	A working position is achieved: <ul style="list-style-type: none"> - Anchor point established. - Supplementary anchor point established. - Proximity to work position achieved. - The climber directs the ground staff. The tree is reduced to the agreed specification, taking into account: <ul style="list-style-type: none"> - Sequence of operations. - Route within the tree crown. - Communication and control of ground staff. - Selection of branches or sections for removal. - Removal of dead, dying and diseased material. - Branches reduced to suitable growth points. - Height and / or spread of the tree is reduced to leave a balanced crown. - Appropriate structure for future crown development. - The extent of the work is not to exceed the tolerance of the tree species. - Accuracy of cuts. - Position of final pruning cuts. - Avoidance of damage to the retained parts of the tree. - Avoidance of damage to surrounding features. - No cut branches left hanging in the tree
5. Demonstrate knowledge of tree pruning operations.	<ul style="list-style-type: none"> - Species and season influence pruning because some species 'bleed' heavily if pruned at certain times of year (e.g. Sycamore and Birch if pruned in the spring). Likely responses to pruning operations would be: <ul style="list-style-type: none"> - The heavy reduction of limbs in vigorous species will result in dense re-growth of shoots around the wound. - The heavy reduction of limbs in non vigorous species or those under stress may cause die-back and / or epicormic growth. - Light pruning to a strong growing point should stimulate healthy growth.