

CITY & GUILDS NPTC LEVEL 3 AWARD IN AERIAL TREE RIGGING (QCF) QAN 600/6498/5



Version 3

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 1 | Forestry & Arboriculture Level 3 |
| Qualification Programme No | 0 0 2 1 - 0 9 | Award In Aerial Tree Rigging |
| Unit(s) | 3 0 9 | Carry out aerial tree rigging |
| Learning Time (LT) | 3 0 9 | LT 19 (3 Credits) <i>(* see note on page 2)</i> |
| Recommended Assessment Duration | | 2.0 – 4.0 hours per Candidate |
| Pre-Requisite Units | 2 0 1 | Carry out maintenance of chainsaw and cutting system |
| | 2 0 2 | Cross-cut timber using a chainsaw |
| | 2 0 3 | Fell and process trees up to 380mm |
| | 2 0 6 | Access a tree using a rope and harness |
| | 3 0 6 | Carry out aerial rescue operations |
| | 3 0 8 | Carry out aerial cutting of trees with a chainsaw using free-fall techniques |

City and Guilds NPTC Level 3 Award in Aerial Tree Rigging (QCF)

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.

What is the Qualifications and Credits Framework?

OFQUAL have introduced the Qualifications and Credit Framework (QCF) to increase flexibility for learners and employers. Qualifications may be built up from individual units according to rules of combination. The units are derived from the National Occupational Standards, which are compiled by Lantra SSC, the Sector Skills Council for the Land-based industries.

Instruction

Attendance at a course of instruction is not a pre-requisite for an application for an assessment but potential Candidates are strongly advised to ensure that they are up to the standards that will be expected of them when they are assessed.

* Learning Time (LT)

Learning Time (LT) is a better indicator of the time requirement needed for a candidate to achieve competence in this qualification. It has replaced Guided Learning Hours (GLH) which are defined as *“tutor or teacher led hours”*. LT is defined as **“a notional measure of the learning time a typical learner might be expected to take to complete and achieve all learning outcomes”**. It takes into account prior learning and encompasses: formal learning (including classes, tutorials, on line tuition), coaching and mentoring, practical work, relevant IT activity, information retrieval, expected private study and revision, work-based activity which leads to assessment, practice to achieve competence, formative assessment, programme planning and feedback.

Access to Assessment

Assessment centres will be responsible for arranging assessment on behalf of the Candidate.

The minimum age limit for Candidates taking Certificates of Competence is 16 years. There is no upper age limit.

The assessment is **one** Mandatory unit:

| | |
|----------|---|
| Unit 309 | Carry out aerial tree rigging |
| | Outcomes |
| | 1. Be able to promote health and safety and industry good practice (1) (Criteria 1.1 – 1.4) |
| | 2. Be able to carry out aerial tree rigging (2) (Criteria 2.1 – 2.7) |
| | 3. Understand relevant health and safety legislation and industry good practice (3) (Criteria 3.1 – 3.5) |
| | 4. Understand how to carry out aerial tree rigging (4) (Criteria 4.1 – 4.11) |

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

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 other operator's manual should be available for the Candidate to use during the assessment if required.

All equipment being used for this assessment must comply with the relevant requirements of the Provision and Use of Work Equipment Regulations (PUWER) 1998.

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.

Safe Practice

Appropriate Personal Protective Equipment (PPE) must be worn at all times.

The Assessor must ensure that a site specific risk assessment is carried out.

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

All ancillary equipment, when detached, must be safely parked.

Failure to operate safely and comply with these requirements will result in the Candidate not meeting the required standard.

Warning signs stating that an assessment is in progress should be available.

The Assessor may stop the assessment on the grounds of safety at any time at his/her discretion.

Before any assessments take place, Assessor & Candidate should to be aware of any local or national issues to prevent breach of security, safety and any cross contamination or damage to the local environment.

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.

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.

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

Chainsaw Safe Practice

At all times during the assessment, equipment must be used in accordance with industry good practice, whatever the task being carried out.

1. Assessors must hold a current 'First Aid at Work' Certificate.
2. All chainsaws used in assessments must comply with relevant Arboriculture and Forestry Advisory Group (AFAG) guidance and HSE Chainsaws at Work INDG317(rev1), 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 machinery, equipment and tools that they are going to use.
6. During chainsaw based assessments a spare working chainsaw must be available.
7. Appropriate Personal Protective Equipment (PPE) must be worn at all times by both the candidate and the assessor. All PPE used must comply with relevant AFAG guidance, industry good practice, 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, along with appropriate fire fighting and suitable welfare facilities e.g. hand cleansing wipes.
9. The use of personal first aid kits must be in line with current industry good practice.
10. The assessor must ensure a site specific risk assessment has been carried out, sufficient control measures implemented and appropriate emergency procedures recorded. All recorded risk assessment information should be clearly legible and accessible to candidates and completed for all locations where assessment activities are scheduled to take place.
11. Manual handling techniques must comply with current legislation and industry good practice.
12. Any necessary permission must have been granted, and notifications made as appropriate.
13. All equipment being used for this assessment must comply with relevant legislative requirements.
14. Information may be sought from the relevant operator manuals or any other appropriate training or safety publication.
15. The current regulations for transport, handling and storage of fuel and oils must be complied with.
16. Provision must be made to avoid the risk of environmental pollution.
17. 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.
18. At all times during the assessment, candidates must act in a way so as not to endanger themselves, the assessor or any other person or equipment. Work must be carried out to achieve the requirements of the assessment criteria in accordance with all relevant and current legislation and good practice guidance.
19. If required, relevant records must be accurately kept.
20. Appropriate steps should be taken to maintain effective teamwork in respect of other persons on site during the assessment.
21. 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.
22. All equipment being used for this assessment must comply with the relevant requirements of the Provision and Use of Work Equipment Regulations (PUWER) 1998.
23. **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.**

This may include taking steps to ensure effective communication and safety precautions.

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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 |
| 3.1 3 | Explain the risk assessment process | Explain five steps to risk assessment | <p>The risk assessment process may contain the following five steps:</p> <ul style="list-style-type: none"> identify the hazards decide who might be harmed and how evaluate the risks and decide on precautions record the findings and implement them review and update the assessment as necessary <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.1 1 | Identify the hazards and risks associated with the working area and the proposed work | <p>Identify three hazards and risks with the working area</p> <p>Identify three hazards and risks with the proposed work</p> | <p>Identify hazards (anything with the potential to cause harm) and risks (who might be harmed and how), relevant to:</p> <ul style="list-style-type: none"> The work area The work to be done <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.1 4 | Explain control measures to be implemented relevant to the working area and proposed work | <p>Explain two control measures for working area</p> <p>Explain two control measures for proposed work</p> | <p>Candidate explained control measures for hazards identified in section 1.1:</p> <p>Typical control measures may include:</p> <ul style="list-style-type: none"> warning signs PPE adequately trained operators industry good practice other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.2 3 | Outline the emergency planning procedures relevant to the working area | State five emergency procedures | <p>Emergency procedures relevant to a work site may 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 (public road/light vehicles, four-wheel drive) suitable helicopter landing area phone number of nearest doctor location of nearest accident and emergency hospital and phone number works manager contact details your own contact number/mobile number other <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| 3.3 3 | Summarise current health and safety legislation and industry good practice | <p>Summarise four key points from Lifting Operations and Lifting Equipment Regulations 1998 (LOLER)</p> <p>Summarise three key points from Work at Height Regulations 2005</p> <p>Summarise two key points from Health and Safety at Work Act 1974 (HSWA)</p> <p>Summarise two key points from Provision and Use of Work Equipment Regulations 1998 (PUWER)</p> <p>State one purpose of each: Arboriculture and Forestry Advisory Group (AFAG) Guides</p> <p>AA/HSE Guide to Good climbing practice</p> <p>HSE RR668 Evaluation of current rigging and dismantling practices used in arboriculture</p> | <p>The main requirements of the LOLER regulations relating to the inspection of rigging equipment include:</p> <ul style="list-style-type: none"> equipment should be subject to a pre use check by the climber a written recorded interim inspection should be kept for equipment subject to high levels of wear a thorough examination should be carried out at least every 12 months equipment should be marked for unique identification <p>The main requirements of the Work at Height Regulations relating to arboricultural operations include:</p> <ul style="list-style-type: none"> all work at height is properly planned and organised those involved with work at height are competent the risks from work at height are assessed and appropriate work equipment is selected and used equipment for work at height is properly inspected <p>Health and Safety at Work Act (HSWA):</p> <ul style="list-style-type: none"> general duties for employers and employees maintain safe places of work other _____ <p>The Provision and Use of Work Equipment Regulations 1998 (PUWER):</p> <ul style="list-style-type: none"> operators adequately trained supervision and management of work equipment other _____ <p>Arboriculture Forestry Advisory Group (AFAG) information:</p> <ul style="list-style-type: none"> providers of industrial good practice other _____ <p>Guide to good climbing practice:</p> <ul style="list-style-type: none"> defines industry accepted techniques for climbing operations other _____ <p>HSE RR668:</p> <ul style="list-style-type: none"> evaluation of current rigging and dismantling practices used in arboriculture other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.2 4 | Explain how to evaluate the tree for hazards and the implications of the hazards | <p>State two hazards</p> <p>State two implications</p> | <p>Tree evaluation may be carried out via:</p> <ul style="list-style-type: none"> visual observation hazard evaluation report other _____ <p>Implications of the hazards when identified may include:</p> <ul style="list-style-type: none"> physical injury damage to equipment damage to retained part of the tree 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 |
| 2.1 2 | Perform a hazard evaluation of the tree and Work At Height Assessment prior to carrying out the work | Candidate to state six hazards that may be present State three | Hazards that may be encountered may include: <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 the presence of power lines or telephone wires targets and obstacles underneath the tree other _____ Factors to be considered as part of the Working at Heights Assessment may include: <ul style="list-style-type: none"> tree hazard evaluation is complete equipment selection and inspection adequately trained operator planned operation other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.5 3 | Describe the potential environmental damage that could occur and how to respond appropriately | Describe one cause Describe one prevention | Potential environmental damage may include: <ul style="list-style-type: none"> damage to retained trees contamination of watercourses wildlife disturbance other _____ Appropriate prevention may include: <ul style="list-style-type: none"> containment and clearance of spills good housekeeping, use of spill mats etc work sequence chosen to minimise subsequent damage to retained trees wildlife assessments completed prior to work other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.9 4 | Describe when tree rigging may be required and its limitations | Describe three reasons Describe three limitations | Rigging may be required when: <ul style="list-style-type: none"> obstacles are located beneath the tree free fall techniques are not possible ground damage must be minimised other _____ Limitations may include: <ul style="list-style-type: none"> higher competency levels of staff required potentially time consuming to set up and use equipment intensive other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.7 4 | Describe how to layout a work site to safeguard the ground crew, aid workflow, and deal with arisings during rigging operations | Candidate to discuss (as per site requirements) | Work site layout factors to consider may include: <ul style="list-style-type: none"> tree size/position access and egress utilities targets number of personnel method of managing arisings other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| 4.4 4 | Describe how to select compatible components to make up a rigging system appropriate for the anticipated load | State three | <p>Selection of compatible components may include:</p> <ul style="list-style-type: none"> knowledge of loads that equipment may be subject to consideration of strength loss due to configuration, age and condition compatibility with any other components other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.5 2 | Select compatible components to make up the rigging system | <p>For rigging point:</p> <ul style="list-style-type: none"> above load below load <p>Assessor to observe</p> | <p>Candidate to select components which may include:</p> <ul style="list-style-type: none"> rigging blocks rigging ropes connectors slings strops lowering devices redirect pulleys other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.3 1 | Use and maintain tools, equipment and personal protective equipment (PPE) | | <p>Candidate to use PPE and safety clothing for tree climbing as per AFAG and include:</p> <ul style="list-style-type: none"> helmet with chinstrap, ear and eye protection personal first aid kit knife with retractable blade or handsaw chainsaw foot protection with good grip and ankle support non- snag clothing chainsaw leg protection <p>Chainsaw:</p> <ul style="list-style-type: none"> appropriate size suitable for the task appropriate safety features appropriate chainsaw lanyard used <p>Candidate to use appropriate climbing equipment for tree climbing to include:</p> <ul style="list-style-type: none"> harness as per AFAG guide rope systems of suitable diameter, length and strength for the climbing line and for the friction hitches triple action auto-locking karabiners for main attachments adjustable strop or a system using both ends of the rope <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.3 2 | Inspect all access and rigging equipment to ensure it is safe and fit for use under manufacturer's instructions and relevant legislation | Candidate to inspect all equipment to be used and comment on the condition/checks made | <p>Candidate to inspect all equipment to be used and comment on the condition/checks made:</p> <ul style="list-style-type: none"> all textiles components should be checked for cuts, frays, correct end terminations, burns and glazing, contamination and excessive wear along with the candidate having the ability to tie, dress and set all knots/hitches used all hardware components should be checked for visible damage, corrosion and to ensure that any locking mechanism works correctly harnesses should be checked for damage to stitching, security of the anchor point(s), cuts and frays and general wear <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 |
| 3.4 3 | Explain the importance of maintaining tools, equipment and personal protective equipment | Explain three reasons | The importance of maintaining tools, equipment and PPE may include: <ul style="list-style-type: none"> operator safety ensuring equipment works when required reduces downtime reduces emissions and possible environmental damage other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.6 4 | Describe how to select suitable work positions and planned drop zones | Describe two work positions Describe two drop zones | Factors to consider when selecting a work position may include: <ul style="list-style-type: none"> minimising climbers risk minimising potential equipment damage available anchor points risk assessment other _____ Factors to consider when selecting an appropriate drop zone may include: <ul style="list-style-type: none"> suitable areas identification of targets access and egress 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 4 | Describe how to select suitable anchor points for the anticipated load without compromising the workers access position | State four | Suitable anchor points may be selected in terms of: <ul style="list-style-type: none"> sufficient size and strength tree form and condition work to be completed anticipated load obstacles beneath climbers position and anchor points planned drop zone other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.3 4 | Explain how to calculate anticipated loads | State all For the purpose of this assessment Safety factor = 1.3 Sp correction factor = 1.27 As stated in the HSE RR668 | <u>Log mass:</u> <ul style="list-style-type: none"> Experience Log mass chart x safety factors x sp correction factor <u>Rigging point load:</u> Above load <ul style="list-style-type: none"> Log mass x 2 (static load) Below the load <ul style="list-style-type: none"> Log mass x 11 (worst case scenario) <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.4 2 | Estimate the anticipated loads | Candidate to discuss with Assessor. The anticipated 'rigging point' load must be estimated prior to section removal for above and below a load. | Rigging point load estimated for: Above the load: <ul style="list-style-type: none"> Section identified Mass of log section is estimated or calculated Rigging point load is estimated Below the load <ul style="list-style-type: none"> Section identified Mass of log section is estimated or calculated Rigging point load is estimated <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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|---------------------------|--|----------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|
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| 4.8 4 | Describe how to minimise shock loading in the rigging system | State Three | Shock loading may be minimised by: <ul style="list-style-type: none"> allowing sections to run removing smaller sections placing more rope in the system reconfigure rigging system other _____ <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.10 4 | Describe how, when and where to use: <ul style="list-style-type: none"> driftload transfer line balance/cradle spider leg speedline false anchor points craning and lifting techniques crane removal pull/tag line | Candidate to describe all | driftload transfer line: <ul style="list-style-type: none"> to move suspended loads from one place to another balance/cradle: <ul style="list-style-type: none"> to lower a horizontal section spider leg: <ul style="list-style-type: none"> used to create a multiple attachment speedline: <ul style="list-style-type: none"> to transport a suspended load false anchor points: <ul style="list-style-type: none"> to create an artificial anchor craning and lifting techniques: <ul style="list-style-type: none"> to divert and lift loads crane removal: <ul style="list-style-type: none"> to increase efficiency and safety of a lifting operation pull/ tag line: <ul style="list-style-type: none"> to assist the removal of a section <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.2 1 | Work in a way which maintains health and safety and is consistent with relevant legislation and industry good practice | Assessor to observe | <ul style="list-style-type: none"> all activities must be completed in a way which protects the operator and those around him or her <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.4 1 | Carry out work to minimise 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 aerial tree rigging activities <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.2 2 Continued | Use access and positioning methods appropriate to the assessed risks and the method statement | Assessor to observe | Candidate establishes their initial anchor point taking into account: <ul style="list-style-type: none"> suitability of the technique used accuracy of the throw rope organisation safety and position of the anchor point testing of the anchor point by thorough loading prior to ascent Candidate accesses and climbs tree taking into account: <ul style="list-style-type: none"> efficient use of access technique chosen candidate is attached to the tree at all times appropriate selection of anchor points appropriate route taken up the tree correct use of adjustable strop or alternative system when changing anchor points loading new anchor points before previous anchor point is removed slack rope within system less than 500mm learner does not climb more than 250mm above anchor point correct use of equipment | <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 |
| Cont... 2.2 2 | | | Final anchor point selected taking into consideration: <ul style="list-style-type: none"> size, strength and structure position in relation to the parts of the tree to be accessed use of equipment to minimise damage to the tree if appropriate Descent takes into account: <ul style="list-style-type: none"> the speed of descent rope organisation appropriate descent route controlled landing controlled removal of equipment <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.6 2 | Assess the position and selection of anchor points for rigging components in relation to: <ul style="list-style-type: none"> anticipated load ground crew other anchor points access equipment position planned drop zone processing area communication | Assessor to observe | Suitable anchor points selected for rigging components in relation to: <ul style="list-style-type: none"> tree form tree condition work to be completed anticipated load ground crew position other anchor points access equipment position planned drop zone processing area communication <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.11 4 | Explain how to remove tree sections by: <ul style="list-style-type: none"> tip tie technique butt tie technique balance/cradle snatching speed line lifting techniques | State all | The basic principles of various rigging techniques may include: <p>tip tie techniques:</p> <ul style="list-style-type: none"> rope attached to tip end of branch <p>butt tie techniques:</p> <ul style="list-style-type: none"> rope attached to butt end of branch <p>balance/ cradle:</p> <ul style="list-style-type: none"> use multiple attachment points to a suspended horizontal load <p>snatching:</p> <ul style="list-style-type: none"> section tied above rigging point <p>speed line:</p> <ul style="list-style-type: none"> after removal of tree section the load is transferred to the speed line to be moved to the designated drop zone <p>lifting techniques:</p> <ul style="list-style-type: none"> during the removal of a tree section the load is lifted by an appropriate lifting device <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 |
| 2.7 2 | Remove tree sections using suitable rigging and appropriate cuts | <p>One Tip tie One Butt tie One Cradle</p> <p>Minimum Two, maximum four</p> <ul style="list-style-type: none"> vertical free fall vertical lowered section pulley below the load <p>One of the above must be a sink cut</p> <p>Simulation is NOT acceptable for this criterion</p> <p>Two to be demonstrated</p> | <p>Tree sections removed using the following techniques:</p> <ul style="list-style-type: none"> tip tie butt tie cradle vertical free fall vertical lowered section <p>Taking the following points into account:</p> <ul style="list-style-type: none"> suitable anchor points for climbing and lowering lines relative positions of climbing and lowering lines appropriate equipment selected for the anchor point of the lowering line use of a craning fork where appropriate appropriate means for the control of friction employed in the lowering system manageable sections selected position and method of attaching rope to the section use of pull line if appropriate appropriate safe and secure working position attained characteristics and properties of the wood considered correct position, depth and accuracy of cuts chain brake applied or saw switched off whilst lowering sections the climber must direct the ground operations limbs are lowered under control <p>Demonstration of the following knots must be demonstrated during the assessment:</p> <ul style="list-style-type: none"> timber hitch cow hitch running bowline clove hitch <p style="text-align: right;">Met ✓ Not Met X</p> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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

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

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

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

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

For use by Internal Verifier ONLY if the assessment process was internally verified
 (Internal Verifier to complete **ONE** of the boxes below)

| | |
|--|--|
| I observed an assessment process taking place and I am satisfied that the assessment was conducted in line with the qualification requirements and that the judgement of the Assessor was appropriate. | Tick <input checked="" type="checkbox"/> <input type="checkbox"/> |
| I observed an assessment process taking place. The following were noted as areas of concern. | Tick <input checked="" type="checkbox"/> <input type="checkbox"/> |
| Signed: | |
| Date: | |