

# City & Guilds Level 3 Certificate of Competence in Aerial Tree Rigging (0039-32)

September 2025 Version 1.6

**Assessment Pack – Centre and Candidate Version** 

Version and date	Change detail	Section
1.0	First version	
1.1 August 2021	Assessor instructions updated	Introduction
1.2 October 2021	AO name added to qualification title	Throughout
1.3 September 2022	Formatting changes	Throughout
·	Updated logo	Front cover
	Updated 'Sources of general information'	Appendix 2
1.4 March 2025	Formatting changes	Throughout
1.5 June 2025	Typographical errors corrected	Practical
		observation descriptor table
1.6 September 2025	ROA paragraph updated, reference to ARAS form removed.	Introduction

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## Introduction

This assessment relates to the unit in the Qualification handbook. The assessment can be achieved at pass only. If any task is not yet met the candidate is unsuccessful.

General guidance on the requirements for assessment can be found in the Assessor Guidance document available on the City & Guilds web site www.nptc.org.uk

The assessor must complete the Practical Table mark sheet for each candidate which should be kept by the assessor for a minimum period of twelve months.

## Record of assessment (ROA)

A prepopulated record of assessment must be completed by the assessor following an assessment and returned to the centre within two working days.

#### **Assessment Time**

The expected assessment time for this qualification is 2-4 hours.

## Site/workshop requirements:

Trees of sufficient size and form to enable all assessment criteria to be assessed Branches of a minimum diameter of 100mm

Vertical timber with a minimum diameter of 200mm.

## **Equipment/Machinery:**

LOLER compliant Mobile Elevated Work Platform (MEWP) if used

LOLER compliant climbing equipment with documented evidence, for the Candidate and the Assessor

LOLER compliant rigging equipment

Top handled or rear handled Chainsaw (max guide bar 15 inch) with maintenance tools Handsaw

First aid kit

### Consumables:

Fuel and chainsaw oil

This is not an open book assessment, however additional technical information may be sought from the relevant manufacturer's operator manuals or any other appropriate training or safety publication.

## **Practical observation descriptor table**

## 303 Aerial tree rigging

Activ	vity number and description from check list	Assessment criteria
1.	Identify the hazards, risks and controls associated with the site, task and machine	Identify hazards, risks and controls relevant to the site task and machine
2.	State the emergency procedures relevant to the site	Emergency procedures relevant to the work site
3.	State industry guides and information relevant to aerial tree rigging	<ul> <li>AA Technical Guide 1 Tree climbing and aerial rescue</li> <li>AA Technical Guide 2 Use of tools in a tree</li> <li>AA Technical Guide 3 Rigging and dismantling</li> <li>AA Technical Guide 5 Use of Mobile elevating work platforms in tree work</li> <li>Evaluation of current rigging and dismantling practices used in arboriculture HSE RR668</li> <li>Tree work recommendations BS3998</li> </ul>
4.	Perform a tree condition assessment of the tree and work at height assessment prior to commencing the work	Potential hazards that may be encountered may include:  • 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
5.	Discuss a working at height assessment	Working at height assessment may include:  can the work be carried out from ground level  the use of a mobile elevating work platform (MEWP) to prevent a fall  The use of suitable equipment minimise the distance and consequence of a fall

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6.	State when tree rigging may be required and its limitations	Rigging may be required when:  • free fall techniques are not possible  • other  Limitations may include:  • higher competency levels of staff required  • potentially time consuming to set up and use  • equipment intensive  • other
7.	Discuss site zoning in relation to on site preparation	Work site layout factors to consider may include:  work zone: an area where hazards may be encountered  drop zone: an area where it is anticipated materials may fall  exclusion zone: the overall operational area  other
8.	Describe how to select compatible components to make up a rigging system appropriate for the anticipated load	Selection of compatible components may include:  • 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
9.	Select compatible components to make up the rigging system	Candidate to select components which may include:  • rigging blocks  • rigging ropes  • connectors  • slings  • strops  • lowering devices  • redirect pulleys  • other
10.	Use and maintain tools, equipment and personal protective equipment (PPE)	Candidate to select compliant PPE and safety clothing for tree climbing and chainsaw use to include:  • tree climbing helmet • personal first aid kit • knife with retractable blade or handsaw • chainsaw protective footwear with good grip and ankle support • non- snag clothing • eye protection • hearing protection • chainsaw protective clothing • appropriate chainsaw with lanyard.  Candidate to select appropriate compliant climbing equipment

11.	Describe how to select suitable work positions and planned drop zones	Factors to consider when selecting a work position may include:  • minimising climbers risk  • minimising potential equipment damage  • available anchor points  • risk assessment  • other  Factors to consider when selecting an appropriate drop zone may include:  • suitable areas  • identification of targets  • access and egress  • other
12.	Describe how to select suitable anchor points for the anticipated load without compromising the workers access position	Suitable anchor points may be selected in terms of:  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
13.	Explain how to calculate the mass of the load	Calculated the weight of the section and mass of the load:  Log mass chart (length x diameter = log mass x safety factor x species correction factor)
14.	Explain how to calculate the peak load on the rigging pully	Calculation of the load for the rigging point when lowering timber may include: Rigging point above the load  log mass x 2 = load Rigging point below the load  log mass x 11 = load
15.	Calculate the anticipated loads	Calculate load:      above the load     below the load
16.	Describe how to minimise shock loading in the rigging system	Shock loading may be minimised by:  allowing sections to run removing smaller sections placing more rope in the system reconfigure rigging system other

17.	Describe methods of adding friction into the rigging system	Methods of adding friction may include:
18.	State the considerations for selecting friction devices	Considerations for the selection of friction devices may be:  • size/mass of the load  • availability of anchor points  • safety being compromised  • simplicity of operation  • potential of equipment damage  • other
19.	Explain how to remove tree sections	The basic principles of various rigging techniques may include:  Tip tie techniques:

	Describe how, when and where to use	Rigging systems to include:
20.		Drift load transfer line:  moving suspended loads from one place to another  Spider leg:  used to create a multiple attachment  Speedline:  transport a suspended load  False anchor points:  to create an artificial anchor  Pull/ tag line:  assist the removal of a section
21.	Demonstrate tying of knots that may be used in rigging	Demonstration of the following knots must be demonstrated during the assessment:  timber hitch cow hitch running bowline clove hitch
22.	Use access and positioning methods appropriate to the tree	All anchor points selected taking into consideration:

23.	Remove tree sections using suitable rigging and appropriate cuts	Tree sections removed using the following techniques:  tip tie  butt tie  cradle  vertical free fall  vertical lowered section  Taking the following points into account:  suitable anchor points for climbing and lowering lines  relative positions of 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
24.	Dispose of waste in line with work specification	All waste produced from activities is disposed of in line with legislation, good practice and/or site requirements
25.	Communicate appropriately with ground staff	communication between climber and ground staff maintained when appropriate
26.	Applied pruning specification	Pruning specifications executed as per industry good practice and job specification
27.	Used appropriate tools, equipment and personal protective equipment (PPE)	All tools, equipment and personal protective equipment is used in line with industry good practice
28.	Carried out work to minimise environmental damage	It is ensured that any possible environmental damage is minimised at all times
29.	Worked in a way which maintains health and safety and is consistent with relevant legislation and industry good practice	All activities must be completed in a way which protects the operator and those around them

# Appendix 1 Practical table

# 303 - Aerial tree rigging

All criteria must be achieved.

ctivi	y number and description	Achieved
1.	Identify the hazards, risks and controls associated with the site, task and machine	
2.	State the emergency procedures relevant to the site	
3.	State industry guides and information relevant to aerial tree rigging	
4.	Perform a tree condition assessment of the tree and work at height assessment prior to commencing the work	
5.	Discuss a working at height assessment	
6.	State when tree rigging may be required and its limitations	
7.	Discuss site zoning in relation to on site preparation	
8.	Describe how to select compatible components to make up a rigging system appropriate for the anticipated load	
9.	Select compatible components to make up the rigging system	
10	Use and maintain tools, equipment and personal protective equipment (PPE)	
11.	Describe how to select suitable work positions and planned drop zones	
12.	Describe how to select suitable anchor points for the anticipated load without compromising the workers access position	
13.	Explain how to calculate the mass of the load	
14.	Explain how to calculate the peak load on the rigging pully	
15.	Calculate the anticipated loads	
16	Describe how to minimise shock loading in the rigging system	
17.	Describe methods of adding friction into the rigging system	
18	State the considerations for selecting friction devices	
19	Explain how to remove tree sections	
<del>20</del>	Describe how, when and where to use	
21.	Demonstrate tying of knots that may be used in rigging	
22	Use access and positioning methods appropriate to the tree	
23.	Remove tree sections using suitable rigging and appropriate cuts	
24.	Dispose of waste in line with work specification	
25.	Communicate appropriately with ground staff	
26	Applied pruning specification	
27	Used appropriate tools, equipment and personal protective equipment (PPE)	
28	Carried out work to minimise environmental damage	
29	Worked in a way which maintains health and safety and is consistent with relevant legislation and industry good practice	

## **Appendix 2** Sources of general information

The following documents contain essential information for centres delivering City & Guilds qualifications. To download the documents and to find other useful documents, go to the *Centre Document Library* on *www.cityandguilds.com* or click on the links below:

## **Quality Assurance Standards: Centre Handbook**

This document is for all approved centres and provides guidance to support their delivery of our qualifications. It includes information on

- Centre quality assurance criteria and monitoring activities
- Administration and assessment systems
- Centre-facing support teams at City & Guilds / ILM
- Centre quality assurance roles and responsibilities.

The Centre Handbook should be used to ensure compliance with the terms and conditions of the Centre Contract.

## Quality Assurance Standards: Centre Assessment

This document sets out the minimum common quality assurance requirements for our regulated and non-regulated qualifications that feature centre assessed components. Specific guidance will also be included in relevant qualification handbooks and/or assessment documentation.

It incorporates our expectations for centre internal quality assurance and the external quality assurance methods we use to ensure that assessment standards are met and upheld. It also details the range of sanctions that may be put in place when centres do not comply with our requirements, or actions that will be taken to align centre marking/assessment to required standards. Additionally, it provides detailed guidance on the secure and valid administration of centre-assessments.

Access arrangements - When and how applications need to be made to City & Guilds provides full details of the arrangements that may be made to facilitate access to assessments and qualifications for candidates who are eligible for adjustments in assessment.

The Centre Document Library also contains useful information on such things as:

- Conducting examinations
- Registering learners
- Appeals and malpractice

## **Useful contacts**

Please visit the Contact Us section of the City & Guilds website, Contact us

## **About City & Guilds**

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The City & Guilds Group is a leader in global skills development. Our purpose is to help people, organisations and economies develop their skills for growth. We work with education providers, employers and governments in over 100 countries across the world to help people, businesses and economies grow by shaping skills systems and supporting skills development.

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