



City & Guilds Level 3 Certificate of Competence in Utility Arboriculture Use of a Chainsaw from a Mobile Elevating Work Platform (MEWP) (0038-35)

March 2022 Version 1.1

**Assessment Pack – Centre and Candidate
Version**

Version and date	Change detail	Section
1.0 December 2021	First version	
1.1 March 2022	Corrected formatting and typographical errors	Throughout
	Added 'In areas where different voltages are used to the ones listed within this guidance, regional variation may be applied.'	Page 4
	Added pre-requisites	
	Activity 8 Added 'to MEWP' to description	Practical observation descriptor table
	Activity 20 Amended 'a dedicated electrical observer/lookout' in 'Procedure for category B trees'	
	Amended third measure in 'Procedure for category C trees'	
	Activity 22 Amended 'dedicated electrical observer/ lookout'	
		Practical table
	Amended activity description 8	

Contents

Introduction	4
Practical observation descriptor table	6
Unit 306 Utility Arboriculture Use of a Chainsaw from a Mobile Elevating Work Platform (MEWP)	6
Practical tables	17
Unit 306 Utility Arboriculture Use of a Chainsaw from a Mobile Elevating Work Platform (MEWP)	17
Appendix 1 Sources of general information	20

Pre-requisites

Candidates must have achieved:

Level 3 Certificate of Competence in Utility Arboriculture Basic Electrical Knowledge (0038-30)

Level 3 Certificate of Competence in Utility Arboriculture Tree Species Recognition, Growth Characteristics and Associated Hazards (0038-31)

Level 3 Certificate of Competence in Utility Arboriculture Ground-based Pruning (0038-32)

Level 2 Award in the Safe Use of a Mobile Elevated Work-Platform (0017-01 or 0017-02)

Level 2 Certificate of competence chainsaw maintenance and cross-cutting (0039-20)

Level 2 Certificate of Competence in Felling Small Trees up-to 380mm (0039-21) or equivalent qualifications.

Centres must ensure that any pre-requisites stated are met.

Introduction

This assessment relates to the units in the Qualification Handbook. The assessment(s) can be achieved at pass grade only. If any task is not achieved the candidate is unsuccessful.

This assessment is for unit 306 Utility Arboriculture Use of a Chainsaw from a Mobile Elevating Work Platform (MEWP) covering the following learning outcome:

1. Carry out utility arboriculture use of a chainsaw from a mobile elevated work platform (MEWP)

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. The number of learning outcomes is listed above, these must be ticked in the relevant 'met' or 'not met' sections of the ROA.

ARAS Forms

An Assessment Result Advice Slip (ARAS form) must be completed by the assessor following an assessment. The ARAS is not a certificate but, based on the evidence of the candidate's performance, is a recommendation to City & Guilds that the candidate has either met or not met the assessment criteria. All feedback is to be recorded by the assessor on the feedback section of the ARAS form.

Assessment Time

The expected assessment time for this qualification is 1½ – 2 hours.

Site/workshop requirements:

Simulated overhead electrical network, trees of an appropriate size for pruning

Equipment/Machinery:

Mobile elevated work platform, LOLER compliant machine, pruning saw/chainsaw

Consumables:

fuel and oil/charged battery

This is a closed book assessment.

In areas where different voltages are used to the ones listed within this guidance, regional variation may be applied.

Practical observation descriptor table

Unit 306 Utility Arboriculture Use of a Chainsaw from a Mobile Elevating Work Platform (MEWP)

Activity 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 relevant to using a chainsaw from a mobile elevating work platform (MEWP)	Industry guides relevant to aerial tree pruning: <ul style="list-style-type: none"> • AA Technical guide 5 Use of Mobile elevating work platforms (MEWP) in tree work • Tree work recommendations BS3998
4	Explain the meaning of the warning decals on the MEWP	Explain the meaning of the warning decals on the MEWP
5	Explain the function of all the instruments and controls of the machine	Explain the function of all the instruments and controls of the machine
6	Carry out pre-use and running checks for the MEWP in accordance with the operator's manual	Carry out pre-use and running checks in accordance with the operator's manual
7	Site set up in accordance with site requirements and risk assessment	Site set up may include: <ul style="list-style-type: none"> • warning signs • traffic management • warning tape • barriers • other
8	Explain how to carry out a MEWP to MEWP rescue	Rescue from a MEWP may include: <ul style="list-style-type: none"> • trained and competent MEWP operator places work platform close to casualty/operator • MEWP operator connects casualty/operator to suitable attachment point in the rescue MEWP • MEWP operator assists casualty/operator into the basket • MEWP operator disconnects casualty/operator from their original system

		<ul style="list-style-type: none"> descent made
9	Explain the potential implication on a MEWP's safe working load limit during aerial rescue	<p>The implications on the MEWP's safe working limit maybe:</p> <ul style="list-style-type: none"> exceeding the rated load of the work platform structural collapse non – function overturn of the MEWP other
10	Explain how the species, condition of trees and time of year affect the work	<p>Species, condition of tree and time of year may affect the work owing to:</p> <p>Species:</p> <ul style="list-style-type: none"> brittle timber – loss of control responses to pruning other <p>Condition:</p> <ul style="list-style-type: none"> dead – loss of control, safety compromised diseased – biosecurity measures other <p>Time of year:</p> <ul style="list-style-type: none"> some species bleed heavily if pruned at certain times of year promotion of subsequent disease or infection other

11	Explain different cuts and when they may be used	<p>Cuts that maybe used and their application:</p> <p>Sink Cut:</p> <ul style="list-style-type: none"> directional sink with back cut retaining hinge which aide's direction <p>Step Cut:</p> <ul style="list-style-type: none"> two over lapping cuts used on handheld sections <p>Inboard:</p> <ul style="list-style-type: none"> finishing cut towards main stem, reducing risk of saw being taken <p>Out board:</p> <ul style="list-style-type: none"> finishing cut away from main stem, timber falls flat and reduces the risk of tearing <p>Vertical:</p> <ul style="list-style-type: none"> on upright or semi-upright timber. Can be one of the above cuts <p>Horizontal:</p> <ul style="list-style-type: none"> on lateral stems. Can be one of the above cuts <p>V Cut:</p> <ul style="list-style-type: none"> two joining directional sinks with back cut, used on smaller diameter stems under tension <p>Holding Cut:</p> <ul style="list-style-type: none"> sink cut with retained hinge and hold at the rear, used on larger diameter stems under tension
12	State the potential defects that maybe present on the overhead line	<p>Potential defects that maybe present on the overhead line may include:</p> <ul style="list-style-type: none"> broken or damaged conductors irregular spacing of conductors ground clearance damaged or rotten poles condition of stays

		<ul style="list-style-type: none"> • other
13	State the requirements if earthing the MEWP is necessary	<p>The requirements for earthing the MEWP may include:</p> <ul style="list-style-type: none"> • cable avoidance tool (CAT scanner) shall be used before any earth rods are driven into the soil • earth rods shall be inserted to a minimum depth of 300mm in a square formation • earth rods shall be positioned at least 500mm from identified underground services • earth nest shall be positioned a minimum of eight metres from the vehicle • earth rods must be driven into the ground before connecting the earth cable to vehicle chassis • the earth rods shall be applied to a designated earthing point on the vehicle if fitted
14	State the factors affecting the use of MEWPs in proximity to overhead power lines	<p>The factors affecting the use of MEWPs in proximity to overhead power lines may include:</p> <ul style="list-style-type: none"> • use of MEWP approved by the network operator • MEWP operator must be competent and authorised by the network operator • MEWPS may only be used in accordance with network operator guidance, including limitations of live and dead working and voltages • network operator control room shall be made aware of operator's daily whereabouts • MEWPS should not be used in situations where there is imminent likelihood of an electrical storm • A nominated ground rescue person should be available on-site to conduct a rescue

15	State the points to be considered when setting up the MEWP	<p>The points to be considered when setting up the MEWP may include:</p> <ul style="list-style-type: none"> • ground conditions must be confirmed as appropriate for MEWP operation • position the MEWP using spreader plates so that it is out of the drop zone • MEWP must never be positioned directly beneath energised conductors • MEWP bucket shall never be positioned directly above or below energised conductors • operatives not within the MEWP bucket while it is being manoeuvred/ positioned
16	Describe the points to be considered for safe operation of the MEWP	<p>The points to be considered for safe operation of the MEWP may include:</p> <ul style="list-style-type: none"> • no part of the MEWP shall ever breach the vicinity zone, The only exception to this will be where no branches breach the Live Zone and there is further supervision and a method statement approved by the Network Operator that ensures there is no breach of the Live Zone • no part of any person's body shall ever breach the vicinity zone • no tools or equipment except approved insulated tools shall breach the vicinity zone • no person shall work directly above or below any live conductor • dedicated electrical observer/ lookout capable of stopping work must be used when working above the level of the electrical apparatus • dedicated electrical observer/ lookout capable of stopping work must be used to maintain clearances • drop zone positioned not to compromise the access equipment or infrastructure
17	State emergency procedures involving a MEWP which is in contact with an overhead power line	<p>Emergency procedures involving a MEWP which is in contact with an overhead power line may include:</p> <ul style="list-style-type: none"> • stop all work • inform the MEWP operator (if necessary)

		<ul style="list-style-type: none"> • inform the supervisor • ensuring no one touches the MEWP or attempts to use ground controls • move away from the immediate area of the machine • ensure that no one is directly beneath the conductors • keep all personnel at least five metres from the machine • contact the emergency control room to request emergency disconnection of power • other
18	State ways of dealing with an injured operator unable to bring themselves down involving a MEWP which is not in contact with an overhead power line	<p>Ways of dealing with an injured operator who is unable to bring themselves down may include:</p> <ul style="list-style-type: none"> • rescue operator with second MEWP if available • initiate manual override ground controls as per manufactures instructions • other
19	Explain how trees are electrically categorised when located in proximity to an overhead line and in which document it can be referenced	<p>Category A:</p> <ul style="list-style-type: none"> • trees within the Vicinity Zone (including the Live Zone) at or above the level of conductors or associated equipment <p>Category B:</p> <ul style="list-style-type: none"> • trees outside but capable of breaching the Vicinity Zone (including the Live Zone) adjacent to conductors or associated equipment <p>Category C:</p> <ul style="list-style-type: none"> • trees within the Vicinity Zone (including the Live Zone) that are beneath the conductors or associated equipment <p>Category D:</p> <ul style="list-style-type: none"> • trees outside the Vicinity Zone with no potential of breaching the Vicinity Zone <p>Document for reference may be:</p> <ul style="list-style-type: none"> • G55
	State the electrical method of work required prior to and during the aerial pruning of trees for all tree categories	<p>Procedure for category A trees:</p> <p>With the line live the method of work should be established by incorporating the following control measures:</p>

<p>20 cont.</p>		<p>assessment and a dedicated observer capable of stopping work must be used</p> <ul style="list-style-type: none"> • a dedicated electrical observer/lookout capable of stopping work must be used to maintain clearances if a climber or mobile elevating work platform is above the level of conductors <p>Procedure for category C trees:</p> <p>With the line live the method of work should be established by incorporating the following control measures:</p> <ul style="list-style-type: none"> • remove branches in the Live Zone with approved insulated tools before any aerial pruning • MEWP must never be positioned directly beneath energised conductors • If the trees are below the level of the Live Zone, then they may be pruned, ensuring that no part of the operators' body, tools or equipment can breach the Vicinity Zone and that branches are not caused to breach the Live Zone, a dedicated electrical observer/lookout capable of stopping work should be used in this instance. <p>Procedure for category D trees:</p> <p>With the line live the method of work should be established by incorporating the following control measures:</p> <ul style="list-style-type: none"> • use non-insulated tools and avoid any breach of the Vicinity Zone by operatives, tools, or equipment
<p>21</p>	<p>State factors to consider when pruning trees from a MEWP adjacent to power lines</p>	<p>Considerations when pruning trees from a MEWP adjacent to power lines may include:</p> <ul style="list-style-type: none"> • material must be handled to prevent anything entering the Vicinity Zone • no work should be attempted directly above the Live Zone • there must be no likelihood of any sections bouncing into the Vicinity Zone

		<ul style="list-style-type: none"> handheld sections must be thrown away from the conductors avoiding the Vicinity Zone cuts must be made accurately to ensure that sections break cleanly without tearing
22	State the process when dealing with vegetation which cannot be cut with a chainsaw or hand saw	<p>When dealing with vegetation which cannot be cut with a chainsaw/hand saw:</p> <ul style="list-style-type: none"> material must be cut using approved insulated tools the operator and all non-insulated equipment must remain outside the Vicinity Zone appropriate pruning points are identified and the length of cut material is appropriate dedicated electrical observer/ lookout capable of stopping work must be used to maintain clearances
23	Set up the MEWP as per manufacturers information and job specification	<p>Set up of the MEWP should include:</p> <ul style="list-style-type: none"> as per manufacturers/operator's manual appropriate PPE worn work restraint/full body harness set up position appropriate for intended operation examination of ground conditions deployment of stabilisers, outriggers, and jacks use of extending axles where applicable secure set up position other
24	Demonstrate safe starting of the chainsaw	Chainsaw is checked started, and function tested ready for use in accordance with manufactures information
25	Operate the MEWP safely	<p>Safe operation of the MEWP should include:</p> <ul style="list-style-type: none"> all round observation correct use of controls control of basket boom correctly slewed MEWP bucket elevated to suitable work position to carry out task

		<ul style="list-style-type: none"> • effective communication • other
26	Demonstrate a variety of cuts on branches in proximity to overhead lines	<p>Step Cut and Sink Cut sections should be removed, taking the following points into account:</p> <ul style="list-style-type: none"> • characteristics and properties of the wood allowed for • manageable sections selected • operator holding the saw using both the front and top/rear handles of the saw • side or reducing cuts used where appropriate • appropriate hinge left on Sink Cut sections • position of cuts on Step Cut sections and a complete overlap of cuts achieved • the branch collar and/or branch bark ridge is identified when pruning • chain brake applied or saw switched off whilst breaking and casting sections • operator maintains awareness of activity below • ensure clear and concise communication • sections cut small enough for ease of handling • sections cast away from the conductors to prevent breach of Vicinity Zone • all pruning operations carried out to prevent the mobile elevated work platform and non-insulated equipment breaching the Vicinity Zone • prune to encourage any new growth to grow away from the line • handheld sections are cast into a predetermined area
27	Demonstrate how to lower the MEWP in a controlled manner	<p>Lowering of the MEWP should consider:</p> <ul style="list-style-type: none"> • platform slewed and lowered in correct sequence • platform lowered slowly and carefully

		<ul style="list-style-type: none"> platform stowed and where applicable locked in travel position other
28	Demonstrate how to convert the MEWP to transport position in accordance with the operator's manual	<p>Convert the MEWP to transport position in accordance with the operator's manual:</p> <ul style="list-style-type: none"> reference to operator's manual appropriate PPE used debris removed stabilisers retracted and secure warning lights off platform checked for roadworthiness as appropriate
29	Explain the reasons for inspecting the MEWP after use	<p>The reasons for inspecting the MEWP after use maybe:</p> <ul style="list-style-type: none"> remove any operational debris from MEWP identify damage that may have been caused through use ensure vehicle is still roadworthy other
30	Dispose of waste safely in line with legislation	All waste produced is disposed of in line with legislation, good practice, and site requirements
31	Use appropriate tools, equipment, and personal protective equipment (PPE)	All tools, equipment and personal protective equipment is used in line with industry good practice
32	Carry out work to minimise environmental damage	It is ensured that any possible environmental damage is always minimised
33	Work 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

Practical tables

Unit 306 Utility Arboriculture Use of a Chainsaw from a Mobile Elevating Work Platform (MEWP)

Candidate name:

Date:

Start time:

Finish time:

All criteria must be achieved.

Activity 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 relevant to using a chainsaw from a MEWP	
4. Explain the meaning of the warning decals on the MEWP	
5. Explain the function of all the instruments and controls of the machine	
6. Carry out pre-use and running checks for the MEWP	
7. Site set up in accordance with site requirements and risk assessment	
8. Explain how to carry out a MEWP to MEWP rescue	
9. Explain the implication on a MEWP's safe working load limit during aerial rescue	
10. Explain how the species, condition of trees and time of year affect the work	
11. Explain different cuts and when they may be used	
12. State the potential defects that maybe present on the overhead line	
13. State the requirements if earthing the MEWP is necessary	
14. State the factors affecting the use of MEWPs in proximity to overhead power lines	
15. State the points to be considered when setting up the MEWP	
16. Describe the points to be considered for safe operation of the MEWP	
17. State emergency procedures involving a MEWP which is in contact with an overhead power line	
18. State ways of dealing with an injured operator involving a MEWP which is not in contact with an overhead power line	
19. Explain how trees are electrically categorized	

Candidate signature and date	
Assessor signature and date	

Appendix 1 Sources of general information

The following documents contain essential information for centres delivering City & Guilds qualifications. They should be referred to in conjunction with this handbook. To download the documents and to find other useful documents, go to the **Centres and Training Providers homepage** on **www.nptc.org.uk**.

City & Guilds Centre Manual

This document provides guidance for organisations wishing to become City & Guilds approved centres, as well as information for approved centres delivering City & Guilds qualifications. It covers the centre and qualification approval process as well as providing guidance on delivery, assessment and quality assurance for approved centres.

It also details the City & Guilds requirements for ongoing centre and qualification approval, and provides examples of best practice for centres. Specifically, the document includes sections on:

- the centre and qualification approval process
- assessment, internal quality assurance and examination roles at the centre
- registration and certification of candidates
- non-compliance and malpractice
- complaints and appeals
- equal opportunities
- data protection
- management systems
- maintaining records
- internal quality assurance
- external quality assurance.

Our Quality Assurance Requirements

This document explains the requirements for the delivery, assessment and awarding of our qualifications. All centres working with City & Guilds must adopt and implement these requirements across all of their qualification provision. Specifically, this document:

- specifies the quality assurance and control requirements that apply to all centres
- sets out the basis for securing high standards, for all our qualifications and/or assessments
- details the impact on centres of non-compliance

Our Quality Assurance Requirements document encompasses the relevant regulatory requirements of the following documents, which apply to all UK centres working with City & Guilds:

- Ofqual's General Conditions of Recognition

The **centre homepage** section of the City & Guilds website also contains useful information on

- **Walled Garden:** how to register and certificate candidates online
- **Events:** dates and information on the latest Centre events
- **Online assessment:** how to register for e-assessments.

Useful contacts

UK learners

General qualification information

E:

learnersupport@cityandguilds.com

International learners

General qualification information

E: intcg@cityandguilds.com

Centres

Exam entries, Certificates, Registrations/enrolment, Invoices, Missing or late exam materials, Nominal roll reports, Results

E: information@cityandguilds.com

Single subject qualifications

Exam entries, Results, Certification, Missing or late exam materials, Incorrect exam papers, Forms request (BB, results entry), Exam date and time change

E: singlesubjects@cityandguilds.com

International awards

Results, Entries, Enrolments, Invoices, Missing or late exam materials, Nominal roll reports

E: intops@cityandguilds.com

Walled Garden

Re-issue of password or username, Technical problems, Entries, Results, e-assessment, Navigation, User/menu option, Problems

E: walledgarden@cityandguilds.com

Employer

Employer solutions, Mapping, Accreditation, Development Skills, Consultancy

T: +44 (0)121 503 8993

E: business@cityandguilds.com

Every effort has been made to ensure that the information contained in this publication is true and correct at the time of going to press. However, City & Guilds' products and services are subject to continuous development and improvement and the right is reserved to change products and services from time to time. City & Guilds cannot accept liability for loss or damage arising from the use of information in this publication.

If you have a complaint, or any suggestions for improvement about any of the services that we provide, email: feedbackandcomplaints@cityandguilds.com

About City & Guilds

City & Guilds is the global skills partner, empowering people, organisations and economies to develop the skills they need for growth. With almost 150 years of trusted expertise, we support people into work, help them develop on the job and move into the next job.

We work with Governments, employers, training providers, colleges and industry stakeholders to design and deliver high-quality training, qualifications, assessments and credentials that lead to meaningful career progression. We understand the life changing link between skills development, social mobility and success. Our solutions span critical sectors including construction, engineering, transport, energy and electrical, serving over 1 million learners annually.

Through our comprehensive portfolio of brands and trusted global network, we set industry-wide standards for technical, behavioural and commercial skills to improve performance and productivity. We believe you can achieve your potential - and we're here to help make it happen.

Copyright

The content of this document is, unless otherwise indicated, © City & Guilds Limited and may not be copied, reproduced or distributed without prior written consent.

However, approved City & Guilds centres and candidates studying for City & Guilds qualifications may photocopy this document free of charge and/or include a PDF version of it on centre intranets on the following conditions:

centre staff may copy the material only for the purpose of teaching candidates working towards a City & Guilds qualification, or for internal administration purposes

candidates may copy the material only for their own use when working towards a City & Guilds qualification.

The Standard Copying Conditions (which can be found on the City & Guilds website) also apply.

City & Guilds

Giltspur House

5-6 Giltspur Street

London

EC1A 9DE

cityandguilds.com
