



0174-514 MARCH 2022

Level 3 Advanced Technical Extended Diploma in Forestry and Arboriculture

Level 3 Forestry and Arboriculture – Theory exam (2)

If provided, stick your candidate barcode label here.

**Tuesday 8 March 2022
13:30 – 15:30**

Candidate name (first, last)

First

Last

Candidate enrolment number

Date of birth (DDMMYYYY)

Gender (M/F)

Assessment date (DDMMYYYY)

Centre number

Candidate signature and declaration*

- If additional answer sheets are used, enter the additional number of pages in this box.
- Before taking the examination, **all candidates** must check that their barcode label is in the appropriate box. Incorrectly placed barcodes may cause delays in the marking process.
- Please ensure that you staple additional answer sheets to the **back** of this answer booklet, clearly labelling these with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.
- All candidates need to use a **black/blue** pen. **Do not** use a pencil or gel pen, unless otherwise instructed.
- If provided with source documents, these documents **will not** be returned to City & Guilds, and will be shredded. Do not write on the source documents.

***I declare that I had no prior knowledge of the questions in this examination and that I will not divulge to any person any information about the questions.**

You should have the following for this examination

- a pen with blue or black ink

General instructions

- Use black or blue ball-point pen.
- The marks for questions are shown in brackets.
- This examination contains **14** questions. Answer **all** questions.
- Answer the questions in the spaces provided. Answers written in margins or on blank pages will **not** be marked.
- Cross through any work you do not want to be marked.



1 Using Figure 1, identify the species of the tree by its common **and** scientific name. (2 marks)



<https://gardening.stackexchange.com>

Figure 1

2 a) State the scientific name for Common alder. (1 mark)

b) State the common name for *Betula pendula*. (1 mark)

3 State one method of tree support and the type of stock it is most suitable for. (2 marks)

4 Explain **two** aftercare requirements for an instant impact tree planted in a city centre. (4 marks)

5 Summarise the benefits of utilising a hydraulic spade for planting trees. (6 marks)

6 State **four** historic features found within an ancient woodland. (4 marks)

7 Explain **two** influences of the First World War on forestry in the UK. (4 marks)

8 Explain **two** limitations of using a chainsaw for coppicing. (4 marks)

9 State **two** functions of xylem. (2 marks)

10 Explain how **two** environmental conditions can influence tree growth and development. (4 marks)

11 Summarise **five** benefits of Natural Target Pruning. (5 marks)

12 List **five** causes of structural instability in trees.

(5 marks)

13 Explain the consequences of **two** types of mechanical damage on trees.

(4 marks)
