



**7906-501 MARCH 2024**

**Level 3 Advanced Technical Diploma in Site Carpentry**

**Level 3 Site Carpentry – Theory exam (1)**

If provided, stick your candidate barcode label here.

**Monday 18 March 2024  
09:30 – 12:00**

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
- a non-programmable calculator

**General instructions**

- This examination contains **23** questions. Answer **all** questions.
- **Section A** – consists of **10** multiple-choice questions, each carrying 1 mark.
  - Indicate your response (a, b, c and d) in the space provided.
- **Section B** – consists of **13** structured/short answer questions.
  - Answer the questions in the space provided.
  - The maximum marks for **each** question are shown in brackets.
- Cross through any work you do not want to be marked.



**Section A**

1 Which regulation would apply when materials are moved from ground level to an upper floor using machinery?

- a) CDM.
- b) LOLER.
- c) RIDDOR.
- d) COSHH.

Response: \_\_\_\_\_

2 What does the term U-value measure in terms of construction materials?

- a) Density.
- b) Strength.
- c) Thermal properties.
- d) Acoustic resistance.

Response: \_\_\_\_\_

3 Where is mineral wool insulation **most** commonly positioned?

- a) In a pitched roof.
- b) In a warm flat roof.
- c) In a solid ground floor.
- d) In a dry lined partition.

Response: \_\_\_\_\_

4 Which formula is used to calculate volume?

- a) Height ÷ Width ÷ Depth.
- b) Height × Width × Depth.
- c) Height – Width – Depth.
- d) Height + Width + Depth.

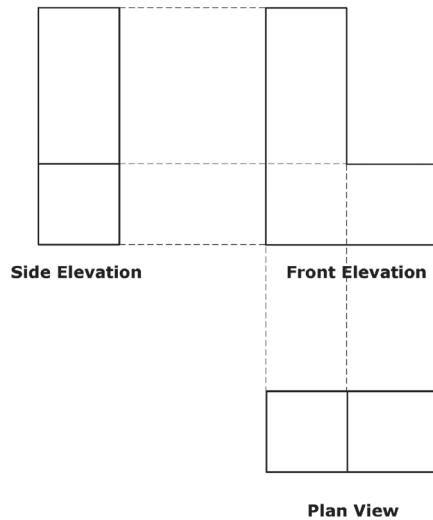
Response: \_\_\_\_\_

5 Which is the **best** method of communication to inform operatives in the workplace of changes to health and safety working practices?

- a) Email.
- b) Webinar.
- c) Toolbox talk.
- d) Site induction.

Response: \_\_\_\_\_

6 Which drawing method is shown in Figure 1?



**Figure 1**

- a) Planometric.
- b) Orthographic.
- c) Isometric.
- d) Axonometric.

Response: \_\_\_\_\_

7 Which feature identifies a dry rot attack?

- a) Flight holes.
- b) Blue staining.
- c) Spongy wood.
- d) Cuboidal cracking.

Response: \_\_\_\_\_

8 What jointing methods should be used to replace the foot of a rafter that has been damaged?

- a) Butted and nailed.
- b) Scarfed and splinted.
- c) Bridled and dowelled.
- d) Housed and screwed.

Response: \_\_\_\_\_

9 Which pre-start check is carried out on a bandsaw?

- a) The crown guard is in place.
- b) The auger clearance is sufficient.
- c) The riving knife is positioned correctly.
- d) The thrust bearing is correctly adjusted.

Response: \_\_\_\_\_

10 What is the correct sequence to follow when planing components from sawn timber?

- a) Bring to width, bring to thickness, plane face side, plane face edge.
- b) Plane face edge, plane face side, bring to thickness, bring to width.
- c) Bring to width, plane face side, plane face edge, bring to thickness.
- d) Plane face side, plane face edge, bring to width, bring to thickness.

Response: \_\_\_\_\_

**Section B**

11 State **three** design features that will reduce energy use within a building. (3 marks)

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12 Give an overview of the Control of Substances Hazardous to Health (COSHH) Regulation. (4 marks)

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13 List **four** factors that need to be considered when preparing a quote for a client. (4 marks)

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14 Explain how **each** of the following information sources assist when preparing a quote.

a) Bill of Quantities.

(2 marks)

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b) Specification.

(2 marks)

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c) Drawings.

(2 marks)

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15 Describe how meetings can contribute to effective communication between members of the construction team.

(4 marks)

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16 Excluding infestation, list **two** factors that can lead to deterioration and decay in timber components. (2 marks)

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17 Describe the differences between planned and unplanned maintenance. (4 marks)

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18 State **four** hazards associated with using woodworking machinery. (4 marks)

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19 Describe the procedure for setting up a hollow chisel morticing machine to produce the mortices for a pair of external doors.

(6 marks)

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20 An operative is using a combination planer to machine 4.2 m lengths of 95 mm x 70 mm timber. Complete the first row of the risk assessment for **one** hazard under the following four headings in Table 1.

(4 marks)

The hazard	The risk	Who is affected	The control measure

Table 1



21 A narrow bandsaw has started to throw the blade off the wheels.  
Describe **two** possible causes and the remedial action to be taken in each case. (4 marks)

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22 Describe how a batch of firrings 2.4 m long should be cut using a fixed rip saw machine. (3 marks)

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