



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?

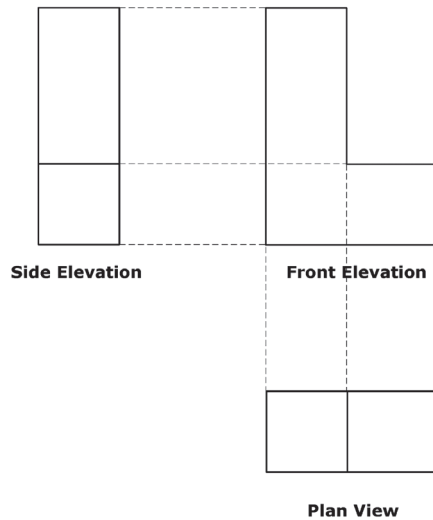


Figure 1

- 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)

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

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

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

a) Bill of Quantities. (2 marks)

b) Specification. (2 marks)

c) Drawings. (2 marks)

15 Describe how meetings can contribute to effective communication between members of the construction team. (4 marks)

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

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

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

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)

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