



**7906-503 MARCH 2022**

**Level 3 Advanced Technical Diploma in Architectural Joinery (450)**

Level 3 Architectural Joinery – Theory exam (1)

If provided, stick your candidate barcode label here.

**Monday 21 March 2022**  
**13:30 – 16:00**

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 **25** 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 **15** 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 document provides details about the measured rates of building materials required for a construction project?

- a) Specification.
- b) Bill of quantities.
- c) Programme chart.
- d) Critical path analysis.

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

2 Calculate the **quantity** of bricks required to construct a **one** brick thick wall in English bond when the wall is 3.9 m long and 0.9 m high. Assume 120 bricks per m<sup>2</sup>.

- a) 210
- b) 211
- c) 421
- d) 422

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

3 Which item of information is required in addition to labour, materials and overheads, when preparing a quote for building work?

- a) Profit.
- b) Land cost.
- c) Travelling time.
- d) Capital gains tax.

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

4 When is a permit to work required?

- a) When using wood machinery.
- b) When working with hired plant.
- c) When working in confined spaces.
- d) When using cartridge operated fixings.

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

5 Which document contains a trouble shooting page that can be consulted should a breakdown occur with a portable power tool?

- a) Manufacturers' catalogue.
- b) Assembly instructions.
- c) Maintenance record.
- d) User's manual.

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

- 6 In a 123-matrix type risk assessment, which score indicates that a major injury is very likely?
- a) 0
  - b) 3
  - c) 6
  - d) 9

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

- 7 What is used to sharpen a morticer chisel auger bit?
- a) Triangular file.
  - b) Conical stone.
  - c) Round file.
  - d) Slip stone.

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

- 8 What is used to facilitate multiple lengths of timber being cut at the same length, when using a cross-cut saw?
- a) Hinged stop.
  - b) Depth stop.
  - c) Pinch stick.
  - d) Push stick.

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

- 9 Which machine has a split infeed roller?
- a) Fixed bed rip saw.
  - b) Spindle moulder.
  - c) Thicknesser.
  - d) Morticer.

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

- 10 What is the name given to the cutting edge on the wings of a mortice chisel auger?
- a) Tip.
  - b) Spur.
  - c) Tooth.
  - d) Lance.

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

**Section B**

11 State what is meant by the term 'Permitted Development'. (3 marks)

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12 State the **two** main types of tender. (2 marks)

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13 List **four** documents used to communicate information in the process of manufacturing joinery. (4 marks)

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19 Identify the **two** operations that can be carried out on a thickening machine using a jig. (2 marks)

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20 When morticing long lengths of timber, state **two** design features required for a roller support stand used to hold up the end of the component. (2 marks)

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21 Describe the purpose of the Approved Code of Practice (ACOP) for the safe use of woodworking machinery. (2 marks)

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22 Summarise **three** actions that need to be taken when a fault on a machine has been identified. (3 marks)

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