



**7905-501 JUNE 2018**

**Level 3 Advanced Technical Diploma in Bricklaying (450)**

Level 3 Bricklaying – Theory exam

If provided, stick your candidate barcode label here.

**Tuesday 19 June 2018**  
**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 any additional answer sheets are used, enter the additional number of pages in this box.

• Please ensure that you **staple** additional answer sheets to the **back** of this answer booklet, clearly labelling them 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.

• 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 assessment and that I will not divulge to any person any information about the questions.**

**You should have the following for this examination**

- non-programmable scientific calculator
- a pen with blue or black ink

**General instructions**

**This question paper is the property of City and Guilds of London and should be returned after the examination.**

- This examination contains **22** questions. Answer **all** questions.
- **Section A** – consists of **10** multiple choice questions, each carrying 1 mark.
  - Indicate your response (a, b, c or d) in the space provided.
- **Section B** – consists of **12** structured/short answer questions.
  - Answer the questions in the space provided.
  - The marks for **each** question are shown in brackets.



**Section A**

1 Which regulation covers accident reporting in the workplace?

- a) RIDDOR.
- b) LOLER.
- c) PUWER.
- d) EAWR.

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

2 Which part of the construction process is inspected by a Building Control Officer?

- a) Roof slating or tiling.
- b) Boundary walls.
- c) Foundation concrete.
- d) Painting and decorating.

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

3 Which processes form part of a Building Information Modelling (BIM) system?

- a) Building control and CAD.
- b) CAD and communication.
- c) Building simulation and data management.
- d) Building simulation and security management.

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

4 What is an advantage of using CAD compared to traditional drawing?

- a) More cost effective.
- b) Minimum training required.
- c) Easy for site operative to use.
- d) Alterations are easy to make.

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

5 What materials are **most** suitable to use as a rigid DPC?

- a) Concrete bricks.
- b) Handmade bricks.
- c) Engineering bricks.
- d) Calcium silicate bricks.

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

6 Which **common** defect arises from chimney flues not being lined?

- a) Flue blockage.
- b) Calcium attack.
- c) Brick erosion.
- d) Pot erosion.

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

7 Which is the **most** suitable item of equipment to use for support, when replacing a lintel?

- a) Strongboys.
- b) Timber props.
- c) Raking shores.
- d) Flying shores.

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

8 Which part of the approved document from the Building Regulations covers the construction of fireplaces and flues?

- a) A.
- b) C.
- c) F.
- d) J.

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

9 What is the **minimum** thickness for a structural hearth?

- a) 75 mm
- b) 100 mm
- c) 125 mm
- d) 150 mm

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

10 What is the purpose of using vermiculite fill behind the fire back, when fixing a fire surround?

- a) To fill the hollow area.
- b) To provide insulation.
- c) To allow for expansion.
- d) To save using brick pieces.

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



13 Explain the importance of a Building Control Officer inspecting the excavation for a foundation prior to concrete being poured.

(6 marks)

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14 Describe how energy saving measures can be incorporated into a building to save energy.

(4 marks)

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15 Describe **two** advantages and **two** disadvantages of using email as a method of communication. (4 marks)

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16 Summarise **four** considerations when preparing a risk assessment for working below ground level. (4 marks)

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17 Describe **two** defects that can occur if poor quality bricks are used for a brick on edge. (4 marks)

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18 Describe the consequences of incorrectly fitting a blade to a disc cutter.

(6 marks)

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19 Name **four** items used in a chimney to prevent water from penetrating the building.

(4 marks)

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20 Describe **three** design features that can be incorporated into a chimney to assist the dispersal of water from the stack.

(3 marks)

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21 a) Give **two** reasons why the finished height contributes to the function of the chimney. (2 marks)

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b) Why is it important to seal the chimney on a pitched roof. (1 mark)

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22 A client requires some advice and guidance on the planning and design of a boundary wall around a garden. The client hasn't provided much detail of what is required and needs some guidance.

Discuss the information, advice and guidance that would be provided to the client. (12 marks)

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