



7905-501 MARCH 2018

Level 3 Advanced Technical Diploma in Bricklaying (450)

Level 3 Bricklaying – Theory exam

If provided, stick your candidate barcode label here.

**Tuesday 20 March 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 **21** 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 **11** structured/short answer questions.
 - Answer the questions in the space provided.
 - The marks for **each** question are shown in brackets.



Section A

1 Under the RIDDOR regulations after how many days of incapacitated does an injury become reportable?

- a) 2 days.
- b) 3 days.
- c) 5 days.
- d) 7 days.

Response: _____

2 What would inspections by an approved inspector for building regulations cover?

- a) Foundation design.
- b) Foundation bearing.
- c) Foundation type.
- d) Foundation mix.

Response: _____

3 What is the name of the document that would show the cost of administering a project and providing general plant and facilities?

- a) Preliminaries.
- b) Preambles.
- c) Schedules.
- d) Specifications.

Response: _____

4 What do the letters BIM stand for?

- a) Building Insurance Method.
- b) Building Information Modelling.
- c) Building Identification Mark.
- d) Building Integration Model.

Response: _____

5 What would be the **most** durable material for wall ties?

- a) Stainless Steel.
- b) Galvanised iron.
- c) Coated tin.
- d) Nickel plated.

Response: _____

6 How is movement in a masonry wall measured over time?

- a) A slide rule.
- b) A tell-tale.
- c) A vernier gauge.
- d) A scale rule.

Response: _____

7 Which item of equipment would be used to support the structure when replacing a defective lintel?

- a) Strongboy.
- b) Raking shore.
- c) Flying shore.
- d) Horizontal strut.

Response: _____

8 Which approved document from the building regulation would provide information of heights of chimney stacks?

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

Response: _____

9 Which component is used to reduce the fire place opening to the size of the flue?

- a) Fireback.
- b) Hearth.
- c) Throat unit.
- d) Plinth brick.

Response: _____

10 What is the recommended size for a throat at the entry to a flue?

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

Response: _____

Section B

11 List **three** criteria that would be examined by a registered building inspector when looking at a sub foundation. (3 marks)

12 Name **three** common methods used to plan construction work. (3 marks)

13 Identity **three** scales that can be used to produce construction drawings. (3 marks)

14 Explain the purpose of **three** checks that would be made by a registered building inspector when inspecting horizontal DPC. (5 marks)

15 a) Name one type of material that will improve the insulation of a cavity wall. (1 mark)

b) When fitting cavity wall insulation, describe the importance of ensuring that the sheets are fixed in place securely and the mortar is removed. (5 marks)

16 You are tendering for a small building project. Summarise the items that could be included within
a) preliminaries (4 marks)

b) PC sum (Prime cost). (4 marks)

17 List **four** items of equipment that could be used to provide temporary support when replacing a defective lintel. (4 marks)

18 a) Describe the probable cause of white staining on a face brick gable end. (2 marks)

b) Outline a method of removing the staining. (2 marks)

c) Recommend treatment that will prevent the stains from returning. (2 marks)

19 Name **two** components used in the construction of a fireplace opening. (2 marks)

20 Explain the purpose and position of two lead components that are used in chimney construction. (8 marks)

Question 21 continued
