



7907-501 MARCH 2022

Level 3 Advanced Technical Diploma in Painting and Decorating (450)

Level 3 Painting and Decorating – Theory exam

If provided, stick your candidate barcode label here.

Wednesday 23 March 2022
09:30 – 11:45

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 calculator

General instructions

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

- This examination contains **26** questions consisting of 70 marks. 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 **16** structured/ short answer questions.
 - Answer the questions in the space provided.
 - The marks for each question are shown in brackets.
 - Show all your workings for questions with calculations.



Section A

1 What design function does the **building control department** of the local authority oversee?

- a) Environmental.
- b) Construction.
- c) Waste management.
- d) Highways.

Response: _____

2 What measurement is used to calculate the quantity of skirting required for a project?

- a) Area.
- b) Weight.
- c) Length.
- d) Volume.

Response: _____

3 What should be included in a construction specification in relation to materials?

- a) Costs.
- b) Descriptions.
- c) Quantities.
- d) Schedules.

Response: _____

4 What is the **main** benefit of using Building Information Modelling in construction projects?

- a) To create and manage computer drawings.
- b) To create and manage manual drawings.
- c) To create and manage information and data.
- d) To create and manage project costs.

Response: _____

5 What is the **minimum** height of the top handrail on a scaffold?

- a) 850 mm
- b) 900 mm
- c) 950 mm
- d) 1000 mm

Response: _____

6 Which material is the **most appropriate** to cut on when hand cutting stencil card?

- a) Plywood.
- b) Hardboard.
- c) Metal.
- d) Glass.

Response: _____

7 Which piece of equipment is used to produce pore like marks when graining?

- a) Rubber comb.
- b) Flogger.
- c) Mottler.
- d) Palette knife.

Response: _____

8 What does the term **cissing** refer to in marbling?

- a) Opening up the surface with solvent.
- b) Using chalk to remove finger marks.
- c) Using white spirit to remove grease.
- d) Creating a defect free background.

Response: _____

9 What does the acronym '**LEV**' stand for when related to airless spraying?

- a) Low Extraction Volume.
- b) Local Extraction Volume.
- c) Low Extraction Ventilation.
- d) Local Extraction Ventilation.

Response: _____

10 What does a Ford Cup measure when used in spraying?

- a) Opacity.
- b) Viscosity.
- c) Porosity.
- d) Density.

Response: _____

Section B

11 Name **two** types of tender involved in the process of tendering for work in Construction. (2 marks)

12 Name **two** cost categories that would be included when preparing a construction quote. (2 marks)

13 State **two** types of renewable energy. (2 marks)

14 State **two** factors to consider when selecting suitable access equipment. (2 marks)

15 Name **two** different types of filling used in brushes for softening wood grain effects. (2 marks)

16 Name **two** items that are used to draw vein like effects in the marbling process. (2 marks)

17 List **two** functions of an airless spray tip when spraying emulsion paint. (2 marks)

18 Describe **one** equipment fault that can occur if an airless spray system is set up **incorrectly**. (2 marks)

19 Describe the **key** differences between outline and detailed planning permission. (4 marks)

20 Describe **two** types of water harvesting/recycling systems that can be used to reduce water consumption in buildings. (4 marks)

21 a) Explain how the height of a proprietary tower is calculated. (2 marks)

b) Explain **two** ways of how the height of a proprietary tower can be **increased**. (2 marks)

22 Identify **four** application defects that can occur when applying a repeating border stencil to a surface coated with vinyl matt emulsion. (4 marks)

23 Describe **three** processes used when applying gold leaf to flat painted wooden surface. (6 marks)

- 24 Provide examples of the types of masking material/equipment that could be used to protect the items in table 1 during airless spraying in an office environment. (4 marks)

Items	Masking materials/equipment
Furniture	
Ceiling and wall light fittings	
Computer work stations	
Floors	

Table 1

- 25 Describe **three** stages of the Pressure Relief Procedure before airless spraying. (6 marks)
