

8711-031 MONTH 2022 T Level Technical Qualification in Onsite Construction) (8711)

Onsite Construction Core (8711-30) – Theory exam (1) (8711-031)

If provided, stick your candidate barcode label here.

Date of exam (TBC) Duration (2 hours)

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.

General instructions

- Use black or blue ball-point pen.
- The marks for questions are shown in brackets.
- This examination contains **22** questions. Answer **all** questions.
- Answer the questions in the spaces provided. Answers written in margins or on blank pages will **not** be marked.
- Cross through any work you do not want to be marked.

The exam has been split into **two** sections.

Below details the types of questions and marks available for each section. Please allow time for each section accordingly.

Section A is made up of **60** marks and includes **18** low tariff and medium tariff, short answer questions, which target recall of knowledge, demonstration of understanding **and** application of knowledge and understanding.

Section B is made up of **30** marks and includes **3** extended response questions, which target application of knowledge **and** understanding and analysis and evaluation of information and issues.



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Section A A construction operative is required to keep up to date with safety issues specifically 1 related to working in construction. State **two** types of CPD that could fulfil this. (2 marks) State **two** methods of tendering for a project. (2 marks) 2 Name parts A and B of the foundation connection in Figure X. (2 marks) 3 Α В Figure X

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4	Construction work can result in the production of waste materials that are considered to be hazardous and therefore require specialist measures when disposing of them.	
	Identify three materials where this is required.	(3 mark
5	Give three examples of safe working procedures that aim to promote and support safety conscious behaviours within a construction environment.	(3 mark
6	You are contracted to assist in the refurbishment of a Grade II listed building.	
	State the two main cost factors that would need to be considered during the planning and design stage of the refurbishment.	(2 marl
7	Give two examples of the purpose of the Environmental Protection Act in dealing with controlled waste.	(2 marl

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Sample 🕂

Explain two responsibilities of a Local Authority Planning Officer once planning permission has been submitted.	(4 mark
Explain two benefits of using Business Information Modelling (BIM) for teams working on the same project.	(4 mark
Describe two methods of establishing whether a construction project requires building regulations approval.	(2 mark

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11	What advantages are there in using an integrated supply chain on construction projects?	(4 mark
12	State one benefit of off-site construction. Give an explanation of your answer.	(2 marl
13	A small domestic dwelling is to be built on land with a good bearing capacity.	
	Suggest the most suitable type of foundation that would be used for this project, giving a detailed explanation or your recommendation.	(6 mar

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A client has decided to build using structural insulated panels (SIPS) rather than mor traditional methods of construction.	e
Explain the advantages of using this method.	(4 marks
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A ladder needs to scale a wall 8.3 m high and pass the top of the wall by a further 1 m	1.
Determine the minimum length of ladder required in order to maintain a correct ladder ratio.	(5 mark

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16	Work needs to be undertaken on re-pointing a chimney at a residential property.	
	Explain the five steps required to produce a risk assessment for this work.	(5 marks
17	Whist managing the design project of a new build plastics factory, you are directed to oversee the estimating and buying personnel.	
	Describe what key duties you would expect these members of the team to perform.	(4 marks

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installation work of building serv of the pipe insulation.		
Explain what must be considered	d to deal with the hazard before work proceeds.	(4 marks
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Section B

Analyse, using current examples, how PESTLE factors affect the residential sector. (9 marks) 19



- A client wants a two-storey extension constructed on the back of an office. The site has very easy access for materials and machinery. The main constraint is that the time allowed for the construction work on site, from commencement to handover, is extremely limited.
 Discuss the construction method most suitable for this time constraint.

(9 marks)



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(12 marks)

21 A client wants to plan and develop sustainable offices for small business enterprises on a brownfield site surrounded by a mixture of residential and commercial properties.

Discuss the environmental performance measures that need to be considered during the design stage of this project to support the planning application to the local authority.



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