

Write your name here

Surname

Other names

Edexcel
Principal Learning

Centre Number

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Candidate Number

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Construction and the Built Environment
Level 3
**Unit 4: Create the Built Environment: Health,
Safety and Environmental Influences**

Tuesday 29 May 2012 – Morning
Time: 1 hour 30 minutes

Paper Reference

CB304/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*

Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

P39826A

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PEARSON

Answer ALL questions. Write your answers in the space provided.

SECTION A

1 Describe **two** types of renewable energy source that could be used for a new construction project.

1

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2

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(Total for Question 1 = 4 marks)

2 Describe **two** duties of an employee under the Health and Safety at Work etc Act 1974.

1

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2

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(Total for Question 2 = 4 marks)



3 Describe **two** measures that could be used to control noise arising from construction operations.

1

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2

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(Total for Question 3 = 4 marks)

4 Describe **two** types of portable energy supply suitable for use on a construction site.

1

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2

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(Total for Question 4 = 4 marks)



5 Describe **three** requirements contained within the current Provision and Use of Work Equipment Regulations (PUWER).

1

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2

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3

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(Total for Question 5 = 6 marks)

TOTAL FOR SECTION A = 22 MARKS



SECTION B

6 Describe **three** methods of protecting adjacent buildings during on-site demolition operations.

1

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2

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(Total for Question 6 = 6 marks)



7 Describe **three** costs that could apply to a construction project during its lifecycle.

1

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(Total for Question 7 = 6 marks)



SECTION C

The questions in Section C refer to the following construction scenario.



Sustainable housing development

A private developer is currently using the principles of sustainable development to design and build three-storey houses using materials that have a low environmental impact. During construction of the houses, external scaffolding working platforms were provided to their full height, incorporating timber access ladders and material storage bays.



9 With reference to the scenario, describe how the developer can ensure the materials used for the houses are sustainable.

Ruled area for writing the answer to Question 9.

Question 9 continues on the next page



(This area is intentionally left blank for student responses.)

(Total for Question 9 = 10 marks)



Handwriting practice area with 20 horizontal dotted lines.

(Total for Question 10 = 10 marks)

TOTAL FOR SECTION C = 20 MARKS
TOTAL FOR PAPER = 60 MARKS

