

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 17 January 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 ►

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PEARSON

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

SECTION A

1 Describe **two** advantages of using renewable energy sources for a construction project.

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2

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(Total for Question 1 = 4 marks)

2 Describe **two** methods of reducing waste materials during concreting operations on-site.

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(Total for Question 2 = 4 marks)



3 Describe **two** uninsured costs to a construction organisation associated with on-site accidents.

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2

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(Total for Question 3 = 4 marks)

4 Describe **two** benefits of using combined heat and power (CHP) systems for construction projects.

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2

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(Total for Question 4 = 4 marks)



5 Describe **three** topics that could be included as part of a site induction for construction operatives.

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(Total for Question 5 = 6 marks)

TOTAL FOR SECTION A = 22 MARKS



SECTION B

6 Describe **three** measures that could be used to control dust during the demolition of a building.

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(Total for Question 6 = 6 marks)



7 Describe **three** measures that can be used by the Health and Safety Executive (HSE) to enforce health and safety legislation on construction sites.

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(Total for Question 7 = 6 marks)



SECTION C

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



Timber framed domestic dwellings

A private developer is currently using modern methods of construction (MMC) to complete a series of two-storey domestic dwellings to meet government sustainable development targets. The dwellings are of timber frame construction incorporating factory produced modules for site assembly and have high levels of thermal insulation for the walls, floors and roof.



9 With reference to the scenario, describe the main hazards to be considered during a risk assessment for the erection of the timber frame.

A series of horizontal dotted lines for writing the answer to Question 9.

Question 9 continues on the next page



Handwriting practice area with 25 horizontal dotted lines.

(Total for Question 9 = 10 marks)



Blank lined area for writing answers.

(Total for Question 10 = 10 marks)

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

