

Write your name here

Surname

Other names

**Edexcel**  
**Principal Learning**

Centre Number

--	--	--	--	--	--

Candidate Number

--	--	--	--	--

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

Tuesday 4 June 2013 – 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 ►

P41394A

©2013 Pearson Education Ltd.

1/1/1



**PEARSON**

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

**SECTION A**

**1** Describe **two** disadvantages of using wind power as an alternative source of energy for a building.

1 .....

.....

.....

.....

.....

2 .....

.....

.....

.....

.....

**(Total for Question 1 = 4 marks)**

**2** Describe **two** potential economic costs to a contractor found guilty of not complying with environmental legislation.

1 .....

.....

.....

.....

.....

2 .....

.....

.....

.....

.....

**(Total for Question 2 = 4 marks)**



**3** Describe **two** safe working practices to be followed when using hazardous substances on a construction site.

1 .....

.....

.....

.....

.....

2 .....

.....

.....

.....

.....

**(Total for Question 3 = 4 marks)**

**4** Other than recycled or reclaimed materials, describe why **two** specific construction materials could be considered to be low-carbon.

1 .....

.....

.....

.....

.....

2 .....

.....

.....

.....

.....

**(Total for Question 4 = 4 marks)**



5 Describe **three** duties of a contractor under the current Work at Height (WAH) Regulations.

1 .....

.....

.....

.....

.....

2 .....

.....

.....

.....

.....

3 .....

.....

.....

.....

.....

**(Total for Question 5 = 6 marks)**

---

**TOTAL FOR SECTION A = 22 MARKS**



**SECTION B**

**6** Describe **three** environmental benefits of using renewable energy sources for construction projects.

1 .....

.....

.....

.....

.....

2 .....

.....

.....

.....

.....

3 .....

.....

.....

.....

.....

**(Total for Question 6 = 6 marks)**



7 Describe **three** methods of protecting a building against structural damage from adjacent excavation works.

1 .....

.....

.....

.....

.....

2 .....

.....

.....

.....

.....

3 .....

.....

.....

.....

.....

**(Total for Question 7 = 6 marks)**





## SECTION C

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



### Construction site

The site consists of a large estate of two and three-storey houses constructed using modern methods of construction. The foundations are of traditional concrete construction and ground floors are concrete beam and block. The external walls use prefabricated timber frames faced with clay brickwork and the roof is of trussed rafter construction with a clay tile finish. All doors, windows and above ground drainage are PVCu and plasterboard dry lining has been used as the finish for the internal walls and ceilings.







**(Total for Question 9 = 10 marks)**



**10** With reference to the scenario, produce a **structured report** describing methods that could be used for the safe on-site mechanical movement of materials and components during construction operations.

Dotted lines for structured report writing.

**Question 10 continues on the next page**



**(Total for Question 10 = 10 marks)**

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

