





2760-201 MAY 2013 Level 2 Principal Learning in Engineering

The engineered world

If provided, stick your candidate barcode label here.	Wednesday 15 May 2013 09:00 – 10:30
Candidate name (first, last)	
First	
Last	
Candidate enrolment number Date of	birth (DDMMYYYY) Gender (M/F)
Assessment date (DDMMYYYY) Centre r	number Cardidate signature and declaration*
 Please ensure that you staple additional booklet, clearly labelling them with your fund qualification number in BLOCK CAPIT If provided with source documents, these and will be shredded. Do not write and the state of the state	ull partie, enrolment number, centre number A.G. documents will not be returned to City & Guilds,

You should have the following for this assessment:

- A pen with blue or black nk.
- An unannotated copy of the 2760-201 May 2013 preparation sheet.

General instructions

- The marks for questions are shown in brackets.
- The **maximum** mark for this paper is 48.
- You may take an unannotated copy of the preparation sheet into the examination.
- This examination contains **fifteen** questions. Answer **all** questions.
- Answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Cross through any work you do not want to be marked.

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Section A

The following questions are about how you worked as part of a team.

1 State your role in the team. Give the reason you were given that role.

Reason

(3 marks)

Successful team members provide support and feedback to others in the group

2 Describe **three** ways of providing support and feedback to others

1

2

3

(6 marks)

prevent injuries.

The materials used for body armour have developed significantly over the past 100 years.

3 Give **two** reasons why these changes were needed.

2 _____

Explain how the different types of materials used in body armour can reduce or

(4 marks)

(4 marks)

5	Farl	hody	armour	was	made	from	ctaal	nlatec
5	carry	y DUUy	armour	was	maue	110111	Steel	plates.

State one specific material now being used. Explain why this material is an improvement on the previous materials.

Material	
Explanation for change	
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	:0

(4 marks)

The materials developed for use in body armour are now being used in a wide variety of different products.

6 Give **three** examples of how this has affected people's lives.

1

2

3

(3 marks)

Section B

This section refers to sectors that make up the engineering industry, career and training opportunities and employment legislation.

7 Name the engineering sector that **each** of the following photographs represents.



www.lowcarboneconomy.com

_____ (1 mark)



www.telegraph.co.uk

b) ______ (1 mark)



www.arcadis-uk.com

c) _____ (1 mark)

8

a)

(2 marks)

b) Describe a **service** from the Built Environment sector of the engineering industry.

Describe a **product** from the Built Environment sector of the engineering industry.

(2 marks)

9 a) Describe a **product** from the Nuclear Technologies sector of the engineering industry.

(2 marks)

b) Describe a **service** from the Nuclear Technologies sector of the engineering industry.

(2 marks)

- 10 There are three main engineering job groups:
 - Professional
 - Technical
 - Operative

Complete the table below, stating which of these groups **each** of the following jobs or functions belong to.

Job title or function	Job Group
Computer maintenance	
Production Engineer	
Tyre Fitter	

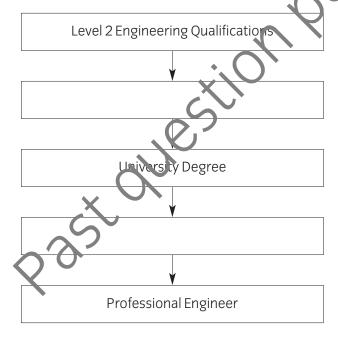
(3 marks)

Job title

Training required

(2 marks)

12 Complete the flow chart below, which shows a typical career path to be coming a professional engineer.



(2 marks)



Give two	examples of the role of a professional body within the engineering sector.	
1		
_		
2		
		(2 ma
The emp	ployment laws for adults are different to those for 16-18 year olds.	
Give two	reasons for this.	
2		
	550	(2 ma

15 Employees have rights and responsibilities when they are at work.

State one right to personal protection **and** one responsibility when working with hazardous substances such as toxic chemical liquids.

Responsibility

(2 marks)

End of assessment

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