





2760-201 MAY 2014 Level 2 Principal Learning in Engineering

The engineered world

If provided, stick your candidate barcode label here.	Thursday 15 May 2014 09:00 – 10:30
Candidate name (first, last)	
First	
Last	
Assessment date (DDMMYYYY) Centre nun If any additional answer sheets are used, enter	er the additional number of pages in this box.
 Please ensure that you staple additional an booklet, clearly labelling them with your full rand qualification number in BLOCK CAPITAL. If provided with source documents, these do and will be shredded. Do not write contrast. *I declare that I had no prior knowledge and that I will not divulge to any person and the short of the sh	name, in nolment number, centre number s. cuments will not be returned to City & Guilds, ource documents. of the questions in this assessment

You should have the following for this assessment

• A pen with blue or beck nk.

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 2760-201 May 2014 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.

+

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.
	Role

Reason

(3 marks)

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

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

2

3

(6 marks)

The following questions refer to the design and manufacture of the chassis of a Formula One racing car.

The chassis of early racing cars was made from metal. The chassis of current Formula One cars are made from composite materials. Give **two** reasons why the materials used for the chassis of racing cars have changed. 2 (4 marks) Name **one** composite material used in the chassis of a modern Formula One racing car and the specific material it replaces. Explain why the composite is an improvement on the material previously used. Composite material Material it replaces Improvement

(4 marks)

Des	cribe how a chassis is made using modern composite materials.	
Ехр	lain an advantage of this process compared with making a chassis from metal.	
Mak	ring a chassis	
Adv	rantage	
		(4 mark
Stat four	te three ways in which ordinary people may benefit by the development of materials and in the modern Formula One racing car.	
1		
2	(8)	
3		(3 marks
	00	(STITUTE)

+

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.ssepd.co.uk

a) _____ (1 mark)



www.telegraph.co.uk

b) ______ (1 mark)



www.ukti.gov.uk

c) _____ (1 mark)

+

8	a)	Describe a product from the Nuclear Technologies sector of the engineering industry.	
			(2 marks)
	b)	Describe a product from the Sports and Medical sector of the engineering industry.	
			(2 marks)
9	a)	Describe a service from the Nuclear Technologies sector of the engineering industry.	
			(2 marks)
	b)	Describe a service from the Sports and Medical sector of the engineering industry.	
			(2 marks)
10	The	ere are three main groups of engineering jobs: professional, technical and operative.	
	Sta	te which group each of the following jobs belongs to.	
	Tele	ecommunications Installer	
	Plar	nt Engineer	
	Lath	ne Worker	
			(3 marks)

2

+

(2 marks)

4	State two things that employers are required to do by law to protect their workers from poor pay and very long working hours.	
	1	
	2	
		(2 mark
5	Employees have rights and responsibilities when they are at work.	
	State one right to personal protection and one responsibility when working in dusty conditions.	
	Right	
	Responsibility	
		(2 marks

End of Assessment

This page is intentionally blank

Pastollestionpalper

This page is intentionally blank

Past dilestion palet

This page is intentionally blank

Pastollestionpalper

Published by City & Guilds 1 Giltspur Street London EC1A 9DD T +44 (0)844 543 0000 F +44 (0)20 7294 2413 www.cityandguilds.com

City & Guilds is a registered charity established to promote education and training

Pastollestionpaper