

2760-201 Practice question paper
Level 2 Principal Learning in Engineering
The engineered world

Time allowed:
1 hour 30 minutes

You should have the following for this practice assessment:

- A pen with blue or black ink.

General instructions

- The marks for questions are shown in brackets.
- The **maximum** mark for this paper is **48**.
- This practice examination contains **eighteen** questions. Answer **all** questions.
- Answer the questions in the spaces provided.
- Cross through any work you do not want to be marked.

Candidate name

Centre name

**Candidate enrolment
number**

Centre number

Task	Mark	Result
Practice question paper	/48	A*/ A/ B/ C/ U

Section A

Answer **all** questions in this section.

The following questions are about what you did in the team.

1 Explain how your group divided the tasks amongst each other and what area of research was allocated to you.

a) Division of tasks

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(1 mark)

b) Your task

.....

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(1 mark)

2 Where did you obtain most of your individual research?

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(1 mark)

3 Describe the important ingredients for a group to function effectively.

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(2 marks)

4 Describe how the investigation was controlled and monitored within your team.

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(2 marks)

5 Explain how you contributed to the support and feedback to other members of the team.

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(2 marks)

The following questions refer to alternative fuels and engine design.

6 a) Give **two** reasons why alternative sources of fuel are being sought.

Reason 1

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Reason 2

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(2 marks)

b) Explain why diesel fuel has been widely adopted as an alternative to petrol.

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(2 marks)

7 Describe the major developments in diesel engine fuel systems over the last twenty years and why they were necessary to keep pace with demand and costs.

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(4 marks)

8 Give **two** disadvantages of diesel when compared to petrol as a fuel for cars.

1

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2

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(2 marks)

9 Compare diesel fuel with other alternative fuels.

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(2 marks)

10 Give **three** examples of how the social and economic development in the UK has changed due to the use of diesel fuelled transport.

1

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2

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3

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(3 marks)

Section B

Answer **all** questions in this section.

This section relates to the whole of Unit 1.

11 Name **three** of the sectors, other than the Oil, Gas and Chemical Manufacture and Transport Infrastructure and Vehicle Systems, that make up the engineering industry.

1

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2

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3.....

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(3 marks)

12 a) Describe **two** products from the Transport Infrastructure and Vehicle Systems sector.

1

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2

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b) Describe **two** products from other sectors of the engineering industry.

(2 marks)

1

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2

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(2 marks)

c) Describe **two** services from the Transport Infrastructure and Vehicle systems sector.

1

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2

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(2 marks)

d) Describe **two** services from other sectors of the engineering industry.

1

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2

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(2 marks)

13 State **three** job roles, one from each of the following: Professional, Technical and Operative in the Oil, Gas and Chemical Manufacture sector.

Professional

.....

Technical

.....

Operative

.....

(3 marks)

14 Explain the Career and Training opportunities that someone would need to follow in order to become a Motor Vehicle Mechanic in the Transport Infrastructure and Vehicle Systems sector.

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(2 marks)

15 Construct a flow chart to illustrate the typical career path to become a Technician in one of the engineering sectors.



(2 marks)

16 Name one professional body representing one of the engineering sectors **and** give one example of how it maintains standards.

Professional body.....

.....

How it maintains standards.....

.....

.....

.....

(2 marks)

17 Give **two** reasons why it is necessary to control, through legislation, substances hazardous to health.

1

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2

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(2 marks)

18 Give **two** examples of how are workers protected from unfair discrimination in the workplace.

1

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2

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(2 marks)

End of assessment