

Scottish Qualifications Authority
Dangerous Goods Safety Adviser Examination
Examination Question Booklet



Road

Exam Date
1400 - 1545

Candidate Number

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Date of Birth

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DD		MM		YYYY

**Seat
Number**

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Examination Centre

Centre No. Centre Name

C	
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Notes

- 1 You are required to complete the section above in BLOCK CAPITALS.
- 2 You must enter your seat number in the box provided.
- 3 You must not detach any sheets from the examination booklet.
- 4 Do not write anything below this line.

For Markers' use only
Marks awarded

Section A			Section B			Total marks
1A	1B	1C	2	3	4	

Marker's initials	
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Principal Marker's initials	
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Instructions to candidates

It is recommended that you read through the paper before answering any questions.

Candidates are only required to record references to the 2009 'Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations (CDG2009)' where one has been specifically asked for in a reference box within the examination paper.

Candidates should thoroughly read their selected case study from start to finish to gain a clear understanding of its direction and objectives. All parts of your chosen case study should be answered considering the full context of the case study and should not be viewed as stand-alone questions.

In Section B, questions may be answered in any order and it is recommended that you answer those questions you consider to be the more straightforward questions first. You need to gain 32 marks to pass this paper.

Answers to questions must be given in the space provided beside each question.

In your answers, use the permitted abbreviations for reference documents contained in the handout.

All answers **must** be in **Black or Blue ink only**.

Any papers written in **pencil will not be marked**.

If you need extra space, write 'continued' and finish your answer in the space provided at the end of this booklet. Make sure you mark any continuation with the question number.

Rough work, not intended to be read by the marker, should be scored out.

No part of this booklet is to be torn out. No writing is allowed on any other paper.

No unauthorised material may be brought into the examination room.

No talking or other means of communication between candidates is allowed during the examination. Any candidate found to be doing so will be subject to instant dismissal from the examination room. All queries should be directed to an invigilator.

You may not leave the examination room during the first 30 minutes or last 15 minutes of the examination, unless you are ill. In this case, let an invigilator know and s/he will make sure the correct procedure is followed.

You must hand your booklet to an invigilator before leaving. **Booklets must not be removed from the examination room under any circumstances.**

[Turn over for Section A on page 4]

NOTES

When you use a reference document to find your answer, you must include the following information:

For ADR - the relevant part, chapter, section, sub-section e.g. 5.4.1.2.3.2 and, where applicable, packing instruction number e.g. 4.1.4.1 P001

For CDG2009 (as amended) - the relevant regulation, schedule, paragraph and subparagraph, e.g. CDG2009 Regulation 5, Schedule 1 and, where applicable, DG EAC List or ADTP

Marks may be lost if relevant detail is omitted.

Give your answer in the space provided below each question.

Remember to include details of your references in the box provided.

Section A

Answer ONE of the following case studies. You have a choice of three.

NOTE: THERE IS ONLY ONE CASE STUDY IN THIS SAMPLE PAPER

Case Study 1A

ABC Agricultural Merchants are based in Exeter. The company stocks a range of chemicals for local farmers and offers a haulage operation to collect product from farmers for delivery to other customers, using a vehicle with a maximum permissible mass of 6 tonnes.

Last Monday, ABC had to make two deliveries to farmers, as detailed below, and one collection. The deliveries were loaded onto the vehicle which then collected two pallets of animal feeds. The pallets were picked up **before** the deliveries were carried out.

Delivery 1			Delivery 2		
ITEM	PG	PACKAGING(S)	ITEM	PG	PACKAGING(S)
UN2067	III	2 x 1000kg flexible IBCs	UN1950	-	6 aerosols (flammable) x 0.5L in a box
UN2784	II	1 x 10L plastics bottle	UN2784	II	1 x 10L plastics bottle
UN3006	II	1 x 5L jerrican	UN3006	II	1 box containing 4 x 5L jerricans

Attempt ONE case study from Section A and ALL of Section B.

Remember to include details of your references in the box provided.

1A (continued)

The aerosols were packed and marked as 'Limited Quantities'.

UN2784 is supplied by the manufacturer to ABC in a box containing 2 x 10L plastic bottles; the package has the following UN specification mark:

 4G/Y25/S/21/F BVT83428

UN3006 is supplied by the manufacturer to ABC in 5L jerricans with the following UN mark:

 3H1/X/100/22/D BAM4678

Before making any deliveries and just shortly after collecting the animal feeds the driver took a break at a café. HSE inspectors saw the vehicle and stopped to inspect it.

When the driver returned, he assisted the inspectors, who had identified some problems with the consignment and the vehicle.

- (a)** A model no. 5.1 placard was being displayed on each side of the vehicle; there were no other markings. Was this correct? **(5 marks)**
If not, what markings and/or placards (including dimensions) should have been displayed on the vehicle and in what positions?

Reference	
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Attempt ONE case study from Section A and ALL of Section B.

Remember to include details of your references in the box provided.

1A (continued)

- (b) The inspectors could not find any entries relating to UN1950 on the transport documents being carried by the driver. When questioned about this, the driver claimed he had been advised that details of this consignment were not required. Is this correct? Explain your answer. **(3 marks)**

Reference	
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- (c) When the inspectors asked to see the driver's ADR dangerous goods driver training certificate, he said he had been advised he did not need one. Was this advice correct? Explain your answer. **(3 marks)**

Reference	
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- (d) The inspectors could only find one 4 kg fire extinguisher on the vehicle. Was this acceptable? If it is not acceptable please explain, identifying the minimum extinguisher requirements (number and capacity) in this case. **(4 marks)**

Reference	
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Attempt ONE case study from Section A and ALL of Section B.

Remember to include details of your references in the box provided.

1A (continued)

- (e) When the inspectors checked the vehicle for other safety equipment, they could only find a high visibility warning vest. As a minimum, what other items of safety equipment should have been on the vehicle? **(5 marks)**

Reference	
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- (f) The inspectors then looked at the load in the back of the vehicle. They expressed some serious concerns about the various consignments on board. Why? **(3 marks)**

Reference	
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- (g) The inspectors also noticed that the plastics bottles of UN2784 were loose and not in boxes. When they asked the driver why, he just said that was how they were given to him. The inspectors therefore decided to phone ABC's transport manager for an explanation. How should he have responded? **(3 marks)**

Reference	CDG2009	
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Attempt ONE case study from Section A and ALL of Section B.

Remember to include details of your references in the box provided.

1A (continued)

- (h) One of the consignments of UN3006 was found in a box with no dangerous goods transport marks or labels on it. The inspectors claimed this was in breach of the regulations. Why? How should the box have been marked and/or labelled? **(5 marks)**

Reference	
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- (i) The transport document being carried by the driver included the following entries for the IBCs containing the fertilizer:
- Ammonium nitrate, UN2067, 5.1, (E)
2 x IBCs Total 2000 kgs
- The inspector said this information was incorrect. How should this consignment have been described? Provide details. **(4 marks)**

Reference	
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(35 marks)

Section B

Answer ALL questions

Remember to include details of your references in the box provided.

- 2 (a) Would an approved ADR driver training qualification be required for a driver of a vehicle with a maximum permissible mass of 5 tonnes, carrying 3 x 4 kg (net mass) cylinders of Chlorine, UN1017. Give reasons for your answer. (2 marks)
- (b) How many fire extinguishers must be carried on the vehicle described in (a) above and what minimum capacity requirements apply to this equipment? (3 marks)

Reference	
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- 3 A UK registered tank-vehicle is carrying Sulphuric acid, fuming, from Manchester to London. The Hazard Warning Panels fitted to the vehicle show '4WE'.
- (a) What panels and placard(s) and UN number must be shown? (2 marks)
- (b) Explain the meaning of the number '4' and the letters 'W' and 'E'. (3 marks)

Reference	CDG2009	
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Remember to include details of your references in the box provided.

4

A consignment of packaged dangerous goods is being shipped by road from Italy to Germany.

- (a) List three items, specific to the product, which must be shown on the transport document for the road journey. **(3 marks)**

- (b) In what language(s) must the transport document be drafted? **(2 marks)**

Reference	
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(15 marks)

[END OF QUESTION PAPER]

CONTINUATION SHEET

This page may be used if further space is required for your answers.

Remember to clearly mark each question number and include details of your references.

SAMPLE PAPER

CONTINUATION SHEET

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SAMPLE PAPER