



SCOTTISH QUALIFICATIONS AUTHORITY

DANGEROUS GOODS SAFETY ADVISER EXAMINATION

EXAMINATION BOOKLET – CORE

Candidate's signature

SAMPLE LAYOUT

Candidate's name.....

Surname

Forename(s)

Date of Birth /

Examination Centre.....

Sample Paper  
0930 - 1045

Seat no:

**NOTES**

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

**For Markers' use only**

Marks Awarded

1	2	3	4	5	6	7	8	9	10	Total Marks

Marker's initials ..... Principal Marker's initials .....

**For SQA use only**

Script checker's initials .....

## 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.

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 at least 32 marks to pass this paper.

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

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

All answers **must** be in ink.

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.**

Please note that this is a sample paper only. Questions and answers may be incomplete.

Answer ALL questions.

Marks

**Note:** When you use a reference document to find your answer, you must include the following information – the document title and, as appropriate, the relevant regulation, schedule, paragraph and sub-paragraph e.g. CDG2007 Regulation 5, Schedule 10 or part, chapter and section e.g. ADR 1.1.1.2. 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 or, where there is no box, include reference as part of your answer.

1 Complete the following table: (3)

UN No	PSN	Packing Group	UN portable tank instructions
1230			
	<i>Ethanol</i>		
2754			

2 Your company chemist has produced a new cleaning agent for your European market. It is to be manufactured in Italy and will initially be sold in France and Germany.

The mixture, a liquid, has the following properties:

Flashpoint 45°C      Boiling point 90°C

Tests show that it has an LD<sub>50</sub> (oral) of 300mg/kg

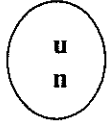
Provide an appropriate UN Number and proper shipping name for this product. (4)

Reference	
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Remember to include details of your references in the box provided or, where there is no box, include reference as part of your answer.

Marks

3 A packaging bears the UN specification marking shown below.



21 HA2/Y/0308/GB Bloggit 9988/0/1500

Identify the meaning of **each** of the following elements of the marking:

(7)

- (a) 21 HA2
- (b) Y
- (c) 03 08
- (d) GB Bloggit 9988
- (e) 0
- (f) 1500

Reference	
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4 (a) Your company is to transport 16 drums each containing 200 litres of UN 2359 from its site in London to a customer in Glasgow. State how the individual drums should be marked and labelled for carriage.

(5)

Reference	
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(b) You decide to ship the drums, four to a pallet, secured by dark grey shrink wrapping. What additional action should you take?

(2)

Reference	
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**Remember to include details of your references in the box provided or, where there is no box, include reference as part of your answer**

Marks

- 5 (a) You are required to supply 20 000 litres of ethyl nitrite solution from your site in Cardiff to a customer in Manchester. You decide to use a single compartment tank.

Describe the marks and placards which are required on the tank.

(6)

Reference	
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- (b) If the consignment was being shipped between Paris and Rome, state the marks and placards that would need to be shown on the vehicle.

(5)

Reference	
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**Remember to include details of your references in the box provided or, where there is no box, include reference as part of your answer**

Marks

**6** You are required to ship the following between Amsterdam and Paris

- 10 metal jerricans each containing 1 litre of UN 1195
- 10 plastic bottles each containing 2.5 kg of UN 1328

They are to be packaged together in fibreboard boxes which are not UN approved. Each box will contain two metal and two plastic receptacles.

- (a) Explain how the goods can be transported. (3)
  
- (b) State the marks and labels which are required on **each** package. (3)

Reference(s)	
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**7** Under the DGSA regulations, list **three** reports/items of information which an employer may be required to supply to a goods vehicle examiner. (4)

Reference(s)	
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**Remember to include details of your references in the box provided or, where there is no box, include reference as part of your answer**

Marks

**8** How would you define high consequence dangerous goods? **(2)**

Reference	
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**9** With regard to a Class 3 dangerous substance, what criteria are used to determine if packing group II applies? **(3)**

Reference	
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**10** In relation to Class 6.1 of RID/ADR explain the difference between TW1 and TO1 **(3)**

Reference	
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(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.**