



**EAST AFRICAN SCHOOL OF AVIATION**  
**FINAL EXAMINATION**  
**ACM-04**

**SUBJECT:DGR DOCUMENTATION**

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**Duration: 2 HRS**

DATE

TIME: 1100 -1300hrs

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**INSTRUCTIONS TO ALL CANDIDATES**

1. Answer all questions.

**Question 1, Part A (2 marks)**

**Shipment Information:**

Requested Routing: Oslo, Norway to Tel Aviv, Israel on El Al (LY) under AWB 114 -12345670.

UN 3108 is to be shipped by passenger aircraft.

Two (2) copies of the DGD of the DGD below are submitted

The Air Waybill extract shown on this page may contain errors and/or omissions.

Correct all errors and/or add missing information.

Do not enter information, which is not relevant to the Dangerous Goods Regulations (i.e. rates, currency)

Handling Information	
Dangerous Organic Peroxides	
	Nature and Quantity of Goods (Include Dimensions of Volume)
	CHEMICALS

**Question1, Part B (17 marks)**

The completed Shipper's Declaration for Dangerous Goods for this shipment is shown on the next page. It contains errors and/ or omissions.

Correct the errors and add the missing information

**SHIPPERS' DECLARATION FOR DANGEROUS GOODS**

Shipper: ABC shipper Munkedamsveien102a, 0134 Oslo Norway	Air Waybill No. 047 - 43658701  Page 1 of 1 Pages Shipper's Reference Number: (Optional)
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Consignee: XYZ consignee Tel Aviv Israel	For optional use for Company logo Name and address.
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Two completed and signed copies of this declaration must be handed to the operator.	<b>WARNING</b> Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.
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<b>TRANSPORT DETAILS</b>			
This shipment is within the limitations for: (delete non-applicable)	Airport of departure:  Oslo		
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">PASSENGER &amp; CARGO AIRCRAFT</td> <td style="padding: 2px;"><del>CARGO AIRCRAFT ONLY</del></td> </tr> </table>	PASSENGER & CARGO AIRCRAFT	<del>CARGO AIRCRAFT ONLY</del>	
PASSENGER & CARGO AIRCRAFT	<del>CARGO AIRCRAFT ONLY</del>		

Airport of Destination  TLV	Shipment type (delete non-applicable)  <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center; padding: 5px;"><b>NON-RADIOACTIVE</b></td> <td style="width:50%; text-align: center; padding: 5px;"><b>RADIOACTIVE</b></td> </tr> </table>	<b>NON-RADIOACTIVE</b>	<b>RADIOACTIVE</b>
<b>NON-RADIOACTIVE</b>	<b>RADIOACTIVE</b>		

**NATURE AND QUANTITY OF DANGEROUS GOODS**

Dangerous Goods Identification				Quantity and Type of Packing	Packing Instruction	Authorization
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Packing Group			
UN 3108	Organic Peroxide Type E solid	5.2	II	One x 1A2 x 10kg	570	

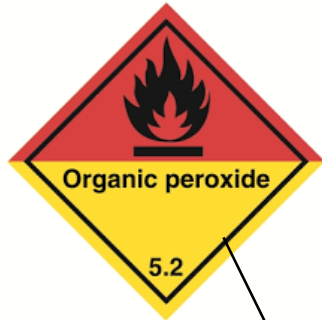
Additional Handling Information

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded and are in all respects in proper condition for transport according to applicable International and national governmental regulations. I declare that all of the applicable air transport requirements have been met.	<b>Name of Signatory</b> Jon Amundsen/  <b>Date</b>  <b>Signature</b> <i>Jon Amundsen</i> (see warning above)
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**Question 1, Part C (06 marks)**

The marks and labels shown below contain errors and/omissions.

Correct all errors and add missing marks and /or labels



**Shipper**  
ABC shipper  
Munkedamsveien102<sup>a</sup>,  
0134 Oslo  
**Norway**

**Consignee**  
XYZ consignee  
Tel Aviv  
Israel

**UN3108**  
Organic Peroxide type E, solid  
(Dibenzoyl Peroxide)



**Question 2, Part A (1 marks)**

**Shipment Information:**

Requested Routing: Karachi, Pakistan to Paris France, on Pakistan International Airlines AWB214-43658701

Two different dangerous goods (un3066 and un2809) are packed in one aluminum box, combination packaging and are to be shipped by passenger aircraft.

Two (2) copies of DGD have been submitted.

The Air Waybill extract shown on this page may contain errors and/or omissions.

Correct all errors and/or add missing information.

Do not enter information, which is not relevant to the Dangerous Goods Regulations (i.e. rates, currency)

Handling Information

	Nature and Quantity of Goods (Include Dimensions of Volume)
	Corrosive Chemicals

**Question 2, Part B (marks)**

The completed Shipper's Declaration for Dangerous Goods for this shipment is shown on the next page. It contains errors and/ or omissions.

Correct the errors and add the missing information

Shipper: ABC shipper Delta Products Co. Ltd Dr Ziauddin Ahmed Road, 74000 Karachi Pakistan		Air Waybill No. AWB 214-43658701  Page 1 of 1 Pages Shipper's Reference Number: (Optional)					
Consignee: XYZ consignee 48 Boulevard Jourdan75014 Paris France		For optional use for Company logo Name and address.					
Two completed and signed copies of this declaration must be handed to the operator.		WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.					
<b>TRANSPORT DETAILS</b>							
This shipment is within the limitations for: (delete non-applicable)		Airport of departure:  Karachi					
<table border="1"> <tr> <td>PASSENGER &amp; CARGO AIRCRAFT</td> <td>CARGO AIRCRAFT ONLY</td> </tr> </table>		PASSENGER & CARGO AIRCRAFT	CARGO AIRCRAFT ONLY				
PASSENGER & CARGO AIRCRAFT	CARGO AIRCRAFT ONLY						
Airport of Destination  Paris		Shipment type (delete non-applicable)  <table border="1"> <tr> <td><b>NON-RADIOACTIVE</b></td> <td><b>RADIOACTIVE</b></td> </tr> </table>				<b>NON-RADIOACTIVE</b>	<b>RADIOACTIVE</b>
<b>NON-RADIOACTIVE</b>	<b>RADIOACTIVE</b>						
<b>NATURE AND QUANTITY OF DANGEROUS GOODS</b>							
Dangerous Goods Identification				Quantity and Type of Packing	Packing Instruction	Authority	
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack- ing Group				
UN 306 6	Paint related Material	8	III	3L	852		
UN 280 6	Mercury	8	III	10kg ! Aluminum box Q=0.9	868		
Additional Handling Information							
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded and are in all respects in proper condition for transport according to applicable International and national governmental regulations. I declare that all of the applicable air transport requirements have been met.				<b>Name/Title of Signatory</b> Mohammed Niaz Khan / Export Manager			
				<b>Place and Date</b> Karachi, 6 <sup>th</sup> June 2019			
				<b>Signature</b> <i>Mohammed Khan</i> (see warning above)			

**Question 2, Part C (16 marks)**

The marks and labels shown below contain errors and/omissions.

Correct all errors and add missing marks and /or labels


**Shipper:**  
ABC shipper  
Delta Products Co. Ltd  
Dr Ziauddin Ahmed Road, 74000  
Karachi, Pakistan

**Consignee:**  
XYZ consignee  
48 Boulevard Jourdan75014  
Paris, France

Un3066  
Paint Related Material

UN2809  
Mercury



 4B/Y20/S/19/NL/ABC1234

**Question 3, Part A (0 marks)**

**Shipment Information:**

Requested Routing: Amsterdam Netherlands to Los Angeles, USA.

Shipment requested to be transported on KLM on AWB no. 074-4321 1234

Radionuclide: Iodine-123, Activity: 4.5 TBq.

Transport index: 3.2, Surface Radiation Level 1.1mSv/h.

Packaging: One Special form Type A package (Steel drum), gross weight 52.0 kgs, dimensions (L)35 x (W)35 x(H)70 cm

This shipment is being offered for carriage on a passenger aircraft

Note: All non-radioactive related USG variations are fulfilled/non-applicable and not be checked!

All applicable NLG variations are complied with, so student does not need to check them

The shipment is to be used for **research purposes**.

Two (2) copies of the DGD of the DGD below are submitted

The Air Waybill extract shown on this page may contain errors and/or omissions.

Correct all errors and/or add missing information.

Do not enter any information which is not relevant to the Dangerous Goods Regulations (i.e. rates, currency)

Handling Information

Dangerous Goods as per attached DGD Urgent Radioactive Materials. Do not Delay!

Nature and Quantity of Goods  
(Include Dimensions of Volume)

Radioactive Material

**Question 3, Part B (14 marks)**

The completed Shipper's Declaration for Dangerous Goods for this shipment is shown on the next page. It contains errors and/ or omissions.

Correct the errors and add the missing information



**SHIPPERS' DECLARATION FOR DANGEROUS GOODS**

<b>Shipper:</b> ABC Research labs, Stadhouderscade 7, Amsterdam 1054 ES, The Netherlands			Air Waybill No. 074-43211234.  Page 1 of 1 Pages Shipper's Reference Number: (Optional)			
<b>Consignee:</b> XYZ Hospital Laboratory 4081 East Olympic Boulevard Los Angeles, California 90023 USA			For optional use for Company logo Name and address.			
Two completed and signed copies of this declaration must be handed to the operator.			<b>WARNING</b> Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.			
<b>TRANSPORT DETAILS</b> This shipment is within the limitations for: (delete non-applicable)						
PASSENGER & CARGO AIRCRAFT		CARGO AIRCRAFT ONLY	Airport of departure:  <div style="font-size: 2em; font-weight: bold;">Sydney</div>			
Airport of Destination  London			Shipment type (delete non-applicable)  <div style="display: flex; justify-content: space-around; border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; padding: 5px; font-weight: bold;">NON-RADIOACTIVE</div> <div style="border: 1px solid black; padding: 5px; font-weight: bold;">RADIOACTIVE</div> </div>			
NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification				Quantity and Type of Packing	Packing Instruction	Authorization
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Packing Group			
UN 3332	Radioactive Material, Type A Package	7		Iodine-123 One Type A Steel Drum x 4.5 TBq	III-Yellow  TI: 3.2 Dims; 35x 35 x 70 cm	
Additional Handling Information						
Emergency contact: Mr. Van Bergkamp +0031 12349876, available 24 hours						
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded and are in all respects in proper condition for transport according to applicable International and national governmental regulations. I declare that all of the applicable air transport requirements have been met.				<b>Name/Title of Signatory</b> Arjen Van Bergkamp/ Lab Technician  <b>Place and Date</b> Amsterdam, 17 <sup>th</sup> June 2020  <b>Signature</b> <i>Arjen Van Bergkamp</i> (see warning above)		

**Question 4, Part C (11 marks)**

The marks and labels shown below contain errors and/omissions.

Correct all errors and add missing marks and /or labels

Contents:

Activity: 4.5

TI:


UN 2916  
Radioactive Material, Type Package

**Shipper:**  
Vegimight Research labs  
250 Downshire Parade  
Chester woods  
New South Wales 6996  
Australia

**Consignee:**  
Marmight Co. Ltd  
9 King Henry Road,  
Arsenal Isling NW2355  
London,

TYPE A/NL/Muel224

**Answer the following questions appropriately, remember you must also give the correct DGR Reference!**

4. Ferrosilicon with less than 30% or more than 90% silicon is "Not Restricted!" \_\_\_\_\_ DGR \_\_\_\_\_
  5. "Recognition of undeclared DG" (hidden DG) is a subject all staff categories are to be trained in. \_\_\_\_\_ DGR \_\_\_\_\_.
  6. UN 2579 and UN1866 may NOT be packed together in one overpack. \_\_\_\_\_ DGR \_\_\_\_\_
  7. The applicable PG for the following flammable liquid is PGI. \_\_\_\_\_ DGR \_\_\_\_\_  
Flash point 18°C  
Boiling point 86°C
  8. The package orientation labels must always be used on packages containing liquid DG. \_\_\_\_\_ DGR \_\_\_\_\_.
  9. The plastic drum blow (1H1) is too old for use, as it is more than 5 years since it's date of manufacture. UN/1H1/X1.5/250/10.
  10. You as a passenger are permitted to carry a portable electronic device. e.g. camcorder containing Lithium ion batteries (Strength 8.4 A/h (amp hour)) and 19.7V (Volts)).  
*Note  $A/h \times V = Wh$  (Watt-hour rating)*
  11. The following symbol means "≥" greater than. \_\_\_\_\_ DGR \_\_\_\_\_
  12. "Methylamine Perchlorate (dry)" is forbidden in Aircraft under any circumstances. \_\_\_\_\_ DGR \_\_\_\_\_
  13. An AWB shows the wording "Not Restricted", but the box appears to have a strong paint odour coming from it and a wet patch on its side. We must check with the shipper as this may contain hidden DG and as the box appears to be damaged. \_\_\_\_\_ DGR \_\_\_\_\_.
  14. A substance with an oral toxicity LD<sub>50</sub> Value of 5.9mg/kg, when classified falls into PGIII. \_\_\_\_\_ DGR \_\_\_\_\_.
  15. Overpack entries must be inserted first on the DGD. \_\_\_\_\_ DGR \_\_\_\_\_.
- Question 16-20 deal only with Radioactive Materials**
16. A NOTOC is not required for UN2908, UN2909, UN2910 nor UN2911. \_\_\_\_\_ DGR \_\_\_\_\_.
  17. One package containing "194-Ir" with an activity of 0.8TBq may be transported in a type A Package.
  18. The  (Trefoil symbol) indicates the item entirely to radioactive material. \_\_\_\_\_ DGR \_\_\_\_\_
  19. The International Atomic Energy Agency publishes regulations for the safe transportation of Radioactive materials (IAEA SSR6) and some of those requirements are shown in DGR section 10. \_\_\_\_\_ DGR \_\_\_\_\_
  20. A Maximum Transport Index (TI) of 1 is permitted for Category I-White label Package.

End of Paper