



EAST AFRICAN SCHOOL OF AVIATION
FINAL EXAMINATION
ACM-04

SUBJECT: MARKING AND LABELLING

Duration: 2 HRS

DATE

TIME: 0900-1100hrs

INSTRUCTIONS TO ALL CANDIDATES

1. Answer all questions.

Question 1, Part A

Shipment Information:

Routing: Stockholm, Sweden to Perth Australia, Belgium on Etihad , AWB 607-23456785
one 4G fiberboard box containing UN 2814 (human immunodeficiency virus) steel drum combination packaging,
shipped by Passenger aircraft.
AEG-01 and 02 are complied with, so you do not need to take this into consideration.
Two (2) copies of the DGD below are provided.

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 Goods as per attached DGD.

	Nature and Quantity of Goods (Include Dimensions of Volume)
1.5k	Infectious substance

Question 1, Part B

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

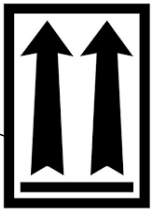
SHIPPERS' DECLARATION FOR DANGEROUS GOODS

Shipper: ABC laboratories, Solnavagen 665 111 22 Stockholm, Sweden				Air Waybill No. 307-23456785 Page 1 of 2 Pages Shipper's Reference Number: (Optional)			
Consignee: XYZ laboratories, 10 Strain St, Bicton, Western Australia 6157, Australia				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.			
TRANSPORT DETAILS							
This shipment is within the limitations for: (delete non-applicable)		Airport of departure: Stockholm					
PASSENGER & CARGO AIRCRAFT	CARGO AIRCRAFT ONLY						
Airport of Destination Perth				Shipment type (delete non-applicable) <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">RADIOACTIVE</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">NON-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 2481	Infectious substance, affecting humans (Human immunodeficiency virus)	6.2	I	One plastic Jerrican x 250ml	620		
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.					Name of Signatory Gunilla svensson Date 21 st march 2020 Signature <i>Gunilla svensson</i> (see warning above)		

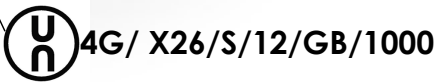
Question 1, Part C

Shipper:
ABC laboratories,
Solnavagen 665
111 22 Stockholm,
Sweden

Consignee:
XYZ laboratories,
10 Strain St,
Bicton, Western
Australia 6157,
Australia



Label affixed on two opposite sides



Question 2, Part A

Shipment Information:

Routing: Reykjavik, Iceland to Brussels, Belgium on FI, AWB 108-88776655.

Three different dangerous goods (UN 1090, UN2071 & UN1717) are packed together in one Limited Quantity steel drum combination packaging, weighing 32kg and are to be shipped by Passenger aircraft.

Two (2) copies of the DGD below are provided.

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 Goods as per attached DGD.	
35.0k	Nature and Quantity of Goods (Include Dimensions of Volume)
	chemicals

Question 2, Part B

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 Nessvegi 18, 201 Kópavogur, Iceland Air Waybill No. 108-88776655		Air Waybill No. 108-88776655 Page 1 of 1 Pages Shipper's Reference Number: (Optional)				
Consignee: XYZ consignee Rue Victor Hugo 4,1049 Brussels, Belgium		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.				
TRANSPORT DETAILS				This shipment is within the limitations for: (delete non-applicable)		
PASSENGER & CARGO AIRCRAFT	CARGO AIRCRAFT ONLY	Airport of departure: Keflavik				
Airport of Destination Brussels		Shipment type (delete non-applicable) <div style="display: flex; justify-content: space-around; border: 1px solid black; padding: 5px;"> RADIOACTIVE NON-RADIOACTIVE </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)	Pack- ing Group			
UN 1090 UN 2071 UN 1717	Acetone Ammonium fertilizer Acetyl chloride	3 9 3	II III II	0.5L 28kg 0.5L All packed in one steel drum. Q = 1.0	Y341 Y958 Y340	
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.					Name of Signatory Orn Jonsson Date March 7th, 2020 Signature <i>Orn Jonsson</i> (see warning above)	

Question 2, Part C

UN 1090 Acetal
UN 2071 Ammonium nitrate based fertilizer
UN 1717 Acetyl chloride

Shipper:

ABC shipper
Nessvegi 18,
201 Kópavogur, Iceland

Consignee:

XYZ consignee
Rue Victor Hugo 4,
1049 Brussels,
Belgium



Question 3, Part A

Shipment Information:

Routing: Antalya, Turkey to Bangkok, Thailand requested to be transported on Turkish Airlines on AWB no.235- 98765432.

Radionuclide: Iron-55 is a solid, metal.

Activity: 21 TBq.

Transport Index: 0.2, Surface Radiation: 0.4 mSv/h.

Packaging: One fibreboard box, gross weight 2 kg, dimensions (L)35 x (W)35 x (H)30 cm.

This shipment is being offered for carriage on a passenger aircraft.

TRG-02 and TK-04 are fulfilled/ N/A and do NOT need to be dealt with by participant.

2 copies of the DGD are provided.

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 Goods as per attached DGD.

Nature and Quantity of Goods
(Include Dimensions of Volume)

Radioactive material

Question 3, Part B

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

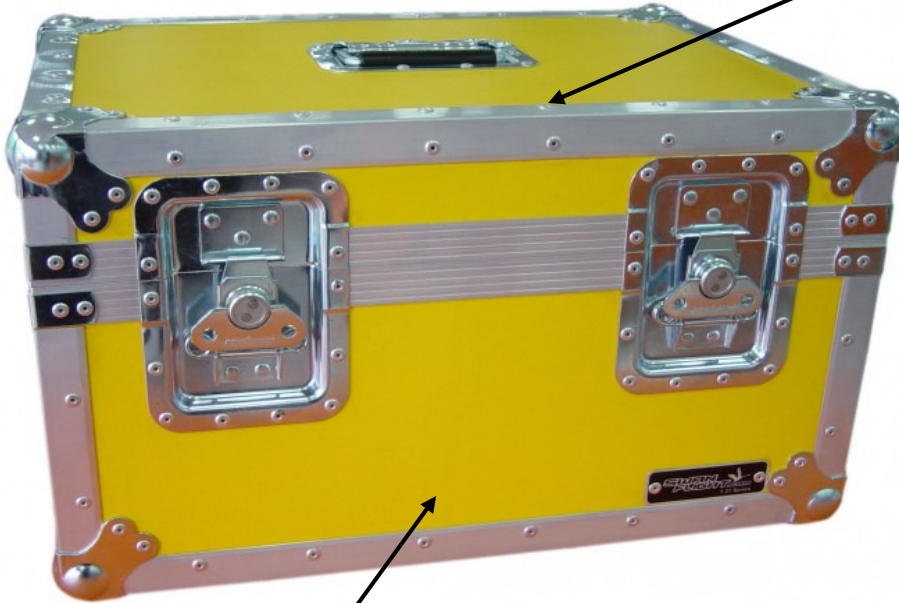
Correct the errors and add the missing information

SHIPPERS' DECLARATION FOR DANGEROUS GOODS

Shipper: ABC Research labs. Ismet kaptan Mahallesi Hurriyet. Bulvari no 8/801, Belek-Antalya 08765 Turkey				Air Waybill No. 235-98765432 Page 1 of 1 Pages Shipper's Reference Number: (Optional)					
Consignee: XYZ laboratories 99 Mu 14, Vibhavadirangsit Rd., Chom Phon, Chatuchak, Bangkok 10900, Thailand				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.					
TRANSPORT DETAILS									
This shipment is within the limitations for: (delete non-applicable)		Airport of departure: Antalya							
PASSENGER & CARGO AIRCRAFT	CARGO AIRCRAFT ONLY								
Airport of Destination Bangkok				Shipment type (delete non-applicable) <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">NON-RADIOACTIVE</td> <td style="padding: 5px;">RADIOACTIVE</td> </tr> </table>				NON-RADIOACTIVE	RADIOACTIVE
NON-RADIOACTIVE	RADIOACTIVE								
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)	Pack- ing Group						
UN 2915	Radioactive Material, Type A package	8 7		Iron (26) Solid metal One Type A package x 21 TBq	I-White TI 0.2				
Additional Handling Information Emergency Contact: Mr. Serkan. Ataturk 0090 1234 9876									
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.				Name of Signatory Ayla Mesut Date 17th March 2020 Signature <i>Ayla Mesut</i> (see warning above)					

Question 3, Part C

The marks and labels shown below contain errors and/omissions.
Correct all errors and add missing marks and /or labels



Radioactive material, Type A package, UN 2915

Shipper:
ABC Research labs.
Ismet kaptan Mahallesi
Hurriyet.
Bulvari no 8/801,
Belek-Antalya 08765
Turkey

Consignee:
XYZ laboratories
99 Mu 14,
Vibhavadirangsit Rd.,
Chom Phon,
Chatuchak, Bangkok
10900,
Thailand



QUESTIONS

If you agree with the statement shown, write the answer YES.

If you disagree, write NO.

Remember, you must also give the correct DGR reference.

We strongly suggest you use the Table of Contents, Index and Appendix A&B to assist in answering the following statements.

#	Statement	Answer + reference
4)	UN2210 and UN2215 may be packed together in one Overpack.	
5)	"REPAIR KITS" is shown on the AWB. This could potentially contain many types of Hidden Dangerous Goods, especially organic peroxides, flammables, adhesives, etc.	
6)	Packages of UN3480 meeting the requirements of Section IB, must bear the Class 9 – Lithium battery lithium battery label (7.3.X), the CAO label (7.4.B) and the lithium battery mark (7.1.C).	
7)	Personnel must be trained in the requirements commensurate with their responsibilities.	
8)	When applicable, the lettering of the OVERPACK" mark must be at least 20mm high.	
9)	The only special provisions (SP) that may be entered in the Authorization column on the DGD are A1, A2, A4 and A5.	
10)	"London Purple" is a Toxic substance (Div.6.1) and is assigned to PG II.	
11)	Crates are outer packagings with incomplete sides and are therefore NOT acceptable to be used as an Overpack	
12)	Division 1.4 are articles and substances presenting no significant hazard.	
13)	Absorbent material is necessary for UN1218 when transported in combination packaging	
14)	When the UN specification packaging marking shows e.g "1A1/X1.4/300.....", the 1.4 indicates the maximum gross weight in kg at which the package has been tested.	
15)	UN3091 in Section II are to be marked with the lithium battery mark but not the CAO label.	
Questions 16–20 deal Only with Radioactive materials)		
16)	For excepted packages of Class 7, the AWB's "Nature and quantity of goods box" must show the following wording: "Excepted radioactive materials – Not restricted!"	
17)	A package with a TI over 10 must be transported under "Exclusive use" & special arrangement.	
18)	Fissile material is defined as Uranium-233, Uranium-235 and Plutonium-239, and Plutonium-241.	
19)	Regarding additional drop tests for type A packages (designed for liquids or gases), the minimum height the specimen package must be dropped from is 9 metres	
20)	For type B packages, the trefoil symbol must be plainly marked by embossing, stamping or other means, resistant to the effects of fire and water, on the outermost receptacle which is resistant to the effects of fire and waters and labels of the package shown below contain errors and/or omissions	