In this test specification we have split the areas to be covered in the exam in to Parts A, B, C and D

Part A – Indicates the core questions that should be asked to every student. (Annotated (A). In the main these questions are worth one point each.

Part B – Indicates the next part of the exam paper to be covered and is split into the two functions of Shipment or Acceptance. Annotated as B-S (indicating Part B shipment only) or B-O (indicating acceptance/Operator only. Where the item refers to both shipment and acceptance it is indicated as B-B (the latter B indicating 'both')

Part C - In some instances it is recognised that a different weighing might need to be applied to a more difficult question. Where this is the case we have identified the area and suggested that this is placed in a different section (in our case C) so that more points can be awarded to it and so that it can be differentiated from the others (where only one point is awarded).

Part D - Where students require a more in-depth coverage of a topic (such as greater classification knowledge or fissile materials) the examination may be extended to include a part D. Where this is the case the certificate issued should indicate the more in-depth areas covered.

A number of training providers have expressed an interest in producing multiple choice questions for Part A. The CAA wish to leave the style of paper (either long answer or multiple choice) up to the Training Providers as there may be varying degrees of competence in creating multiple choice questions and valid distractors. Other training providers may not favour this style – consequently the decision is left to the Training Providers. However, in order to try and achieve parity between the two styles the chart below has been revised to require less subsections within a single question. We have also included a column for multiple choice. This indicates the number of questions and the points to be awarded – Normally 1-1 (meaning 1 question, 1 point). However in Part C it will be noted that the weighting is slightly different and more points are awarded for the correct answer. Questions in Part C can be either long answer or multiple choice. This is indicated in the multiple choice column as "1-2" meaning 1 question, 2 points. This differs from the normal practice of awarding only 1 point per question and as such it is differentiated into a separate Part to indicate that different rules apply.

The Total number of points available and the Pass mark for the exam paper needs to be given on the student's paper. Pass (of 75%) is required in part B (as per mainstream exam papers). Pass mark to be 75% unless Multiple choice questions are used in the core in which case the pass mark is raised to 80%)

All examination Parts described above must be undertaken in the same examination session. The Exam conditions are as per the mainstream exams

Table 1 Principle Objectives for Each Training Programme

RESPONSIBILITIES OF SHIPPERS/ FREIGHT FORWARDERS FOR RADIOACTIVE MATERIAL	RESPONSIBILITIES OF ACCEPTANCE STAFF FOR RADIOACTIVE MATERIAL
To know where to find and use information:	To know where to find and use information on the acceptance for air transport of
(1) so as to prepare correctly a consignment of radioactive material for air transport;	radioactive materials and the operator's responsibilities for their handling and preparation for air transport.
(2) to verify that a consignment of radioactive material has been correctly prepared for air transport.	

Table 2 Objectives for Each Area of a Training Programme

Italic & Underscored text indicates the areas of training in Table 1.5A

Area of Training	TOT Padioactive	Responsibilities of Acceptance Staff (operators/ handling agents) for Radioactive Material At the end of the session students should be able to:		Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
1.1UK Law, Applicability and <u>General</u> <u>Philosophy</u>	the transport of rad goods by air or State who the regulater responsibilities radioactive dangered state the scope and	le UK legislation on lioactive dangerous lations apply to and s for the transport of ous goods by air or d application on the ctive dangerous goods	*	L	A	1	1	1-1	Choose one not covered by mainstream examination SC-added to enable inclusion IATA 10.0 (scope and radac protection prog as a number of exams contain this)		
1.2 Appendix B- Nomenclature	Convert radioactive SI Units	e decimal multiples of	*	М	А	1	1	1	SC – added as many exams put in questions concerning conversions		
2. <u>Limitations</u>	State the limitations th	nat may apply to the car	rriage of	fradioactive	dangerou	s goods by a	ir. Specifica	ılly			

Area of Training	Responsibilities of Shippers/ Packers and Cargo Agents for Radioactive Material At the end of the session students should be able to:	9	Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
2.1 Forbidden under any circumstances/ unless exempted.	Identify which items of radioactive dangerous goods are totally forbidden and those which are forbidden unless exempted and the specific conditions under which they can be transported.	*	L	A	1 for either area	1	1-1	Points should be given to the correct answer and not to correct reference numbers unless there is a Yes/No question where we need to be sure that the student knows where to get the info from and that it wasn't just a guess (in this case ½ point should b awarded for the Yes/No answer and ½ for the reference making up the 1 pt.		
2.2 Hidden dangerous goods	Identify the types of general cargo that may contain hidden radioactive material Identify the types of general cargo that may contain hidder radioactive material State the action that they need to take if they suspect that a consignment may contain hidder radioactive dangerous goods.	No						Needs to be in training but is not considered to be an examination subject		
2.3 Pax and crew	Identify what DG pax and crew are permitted to take on an aircraft	No						Needs to be in training but is not considered to be an examination subject		

Area of Training	Responsibilities of Shippers/ Packers and Cargo Agents for Radioactive Material At the end of the session students should be able to:	Responsibilities of Acceptance Staff (operators/ handling agents) for Radioactive Material At the end of the session students should be able to:	Exam	Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
2.4Transport by post	the transport of rad	rictions that apply to lioactive dangerous nd the correct method	No						Needs to be in training but is not considered to be an examination subject		
2.5 Variations	Apply appropriate s variations to radioa	state and operator active consignments	*	M	Α	1	1	1-1	Either state or operator		
3. Classification	Classify and allocate	for radioactive dangero	us good	s. Specifica	ally:						
3.1 Types of radioactive materials (e.g. LSA, special form, fissile)	Classify different material	t types of radioactive	*	M	C-Both & D if job involves fissile	1 (1 substance)	2	1-1	List on certificate if fissile included in exam		
3.2 Activity limits	Identify the active for radioactive m	ity limits for packages naterial	*		C both	1	2pt each	1-2			
3.3 Multiple hazards	Classify radioactive than one hazard	e material with more	No But		D option if job involves this				List on certificate if Multiple hazards included in exam		
4. Identification	Select appropriate Promaterials (IATA 10.4.		UN num	bers and ide	entify spec	cial provisions	from the <i>Lis</i>	st of Dang	erous Goods for radioactive		
4.1 Proper shipping names and UN numbers		appropriate proper and UN number for an ve material:	*	M	A	1 1 sub	1	1-1	(UN Nr & PSN). (If using multiple choice put both UN number and a PSN in each possible answer.)		
4.2 Special provisions		e special provisions to f radioactive material	*	M	А	1	1	1-1			

Area of Training	Responsibilities of Shippers/ Packers and Cargo Agents for Radioactive Material At the end of the session students should be able to:	Responsibilities of Acceptance Staff (operators/ handling agents) for Radioactive Material At the end of the session students should be able to:		Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
5. Packing 5.1 Selecting packaging	Select the appropriate packaging in relation to the form and activity level of the radionuclide Description of the general packaging in relation to the form and activity level of the radionuclide	Verify that the appropriate packaging has been presented in relation to the form and activity level of the radionuclide	order to	appropriate M	ly pack/a	ccept an item 1 (radionuclie)	of radioactiv 1	re material 1-1	l.		
5.2 Excepted packages of radioactive materials	Determine the activity limits for packages of radioactive material	/A	* only shipper	M/L	B-S	1	1	1-1			
5.3 Determination of transport index for radioactive materials		I/A	* only shipper	М	C-S	1	2	1-2			
5.4 Category of packages for radioactive materials	Assign appropriate Categories to radioactive consignment s	Verify that the correct category has been assigned	*	M	C-Both	1	2	1-2			

Area of Training	Responsibilities of Shippers/ Packers and Cargo Agents for Radioactive Material At the end of the session students should be able to:	Responsibilities of Acceptance Staff (operators/ handling agents) for Radioactive Material At the end of the session students should be able to:	Exam	Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
6. Design approvals	To be able to identify	the design approvals re	equired	for different	types of r	adioactive pac	ckagings.				
6.1 Design approvals	Identify the design for different type packagings.	gn approvals required s of radioactive	*	М	A	1	1	1-1			
7. Marking and Labelling	To be able to approp a radioactive package	riately mark and label e									
7.1. Marking		s on packages (such ol, VRI codes, serial	*	М	A	1	1	1-1			
	Appropriately position and apply markings to consignments of radioactive dangerous goods.	Verify that a radioactive package is correctly marked	*	Н	B-S B-O	2	multiple	N/A	Shipment students to mark and label 2x different packages using value of points as per example given. Acceptance students to be given 2 previously marked and		

Area of Training	Responsibilities of Shippers/ Packers and Cargo Agents for Radioactive Material At the end of the session students should be able to:	Responsibilities of Acceptance Staff (operators/ handling agents) for Radioactive Material At the end of the session students should be able to:		Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
7.2 Labelling	Appropriately position, complete and apply appropriate hazard and handling labels to consignments of radioactive dangerous goods.	Verify that an appropriate label has been applied and completed in accordance with the contents.		Н	B-S B-O		multiple	N/A	labelled packages (with associated documentation – see below) that contain errors for them to snag using the radac checklists.		
8 Dangerous Goods transport documentation (Shippers Declaration) and other relevant documentation	To be able to complet	te and/or check all relev	ant trar	sport docun	nentation	and state the	requirement	ts for their	retention.		

Area of Training	Responsibilities of Shippers/ Packers and Cargo Agents for Radioactive Material At the end of the session students should be able to:	Responsibilities of Acceptance Staff (operators/ handling agents) for Radioactive Material At the end of the session students should be able to:	Exam	Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
8.1 Completion of the dangerous goods transport document/ Shipper's Declaration	Accurately complete a dangerous goods transport document// Shipper's Declaration	Verify by inspection that a document/ Declaration has been correctly completed	*	Н	B –S & B-O	1½ 2	multiple	N/A	B-S: Shipper 1 ½ SDs (1 full one matches the labels on consignment) remaining type can be extract. Value of points either 1pt or 0.5pt depending upon area of DGD (see example) B-O: 2 x full DGD matching the package. Follow on same line as existing exams. Mark the checklist items rather than the DGD (see example for marking guide)		
8.2 Completion of the Air Waybill (or similar document)	Correctly complete an Air Waybill (or similar document)	Verify that an Air Waybill (or similar document) has been correctly completed.	No						Operator: needs to be in training but is not considered to be an examination subject		
8.3 Addition al documents (i.e: competent authority approvals or certificates)	 Identify when any additional radioactive approvals are required 	Verify that any required additional approvals have been provided	*	Н	A & B-O	1	1	1-1	In addition to Part A, for Operators this needs to be covered when accepting the package. A copy of the design approval cert needs to been provided in the items to be checked .(+ something in additional handling info)		

Area of Training	Padioactivo	Responsibilities of Acceptance Staff (operators/ handling agents) for Radioactive Material At the end of the session students should be able to:	Exam	Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
8.4 NOTOC		Accurately complete a NOTOC	*		B - O	1	2	N/A	White and Yellow Category		
8.5 Retention and dissemination of information	identify which docu be retained and for	iments are required to how long	No						Needs to be in training but is not considered to be an examination subject		
9. Handling	To be able to state the	e procedures undertake	en opera	tor/handling	agents w	hen handling	radioactive	material f	or air transport		
9.1 Acceptance inspection and use of a check list	N/A	Carry out a check using an acceptance check list to confirm that all applicable requirements have been met	*	Н	B-O	2	Multiple	N/A	See 7 and 8.1 above Checklist items score 0.5pt for each correct check-list item.		
9.2 Handling, loading and stowage including • orientation • placing and securing packages • replacing labels • ULD identification	N/A	Use handling, loading and stowage procedures either to ensure dangerous goods are handled, loaded and stowed correctly or to convey details about them to other persons	No						Needs to be in training but is not considered to be an examination subject		

Area of Training	Responsibilities of Shippers/ Packers and Cargo Agents for Radioactive Material At the end of the session students should be able to:	Responsibilities of Acceptance Staff (operators/ handling agents) for Radioactive Material At the end of the session students should be able to:		Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
9.3 Separation of radioactive	N/A	Appropriately separate packagings and groups of radioactive materials from people, animals and undeveloped film.	*	Н	C-O	1	2	1-2			
9.4 Inspect and deal with packages that are damaged and/or leaking	N/A	Inspect consignments for damage or leakage and take appropriate action to deal with any that are found.	No						Needs to be in training but is not considered to be an examination subject		
9.5 Emergency procedures	Provide an overview of emergency procedures and any necessary requested information	Locate and apply emergency procedures (including ERG	No						Needs to be in training but is not considered to be an examination subject		

Area of Training	TOT Radioactive	Accentance Staff	Exam	Level of difficulty (H/M/L)	Part	Nr of questions	Points for question Long Answer	Multiple choice Nr & points	Comments	Where in training programme?	Where in exam if required (i.e. got * in Exam column
9.6 Reporting procedures		 Appropriately report dangerous goods accidents/ incidents/occurrenc es Identify and then report any undeclared or mis- declared dangerous goods. 	No						Needs to be in training but is not considered to be an examination subject		