THE CARRIAGE OF DANGEROUS GOODS AND THE USE OF TRANSPORTABLE PRESSURE RECEPTACLES REGULATIONS

As administered by Scottish Qualifications Authority

INTRODUCTION AND EXPLANATORY NOTE

THIS DOCUMENT CONSISTS OF:

1. AN OUTLINE OF THE SYLLABUS **AS REVISED IN MAY 2006** AND THE OPTIONS AVAILABLE TO TRAINING PROVIDERS

2. THE TEXT OF THE SYLLABUS **AS REVISED IN MAY 2006**

IN THE OUTLINE AND OPTIONS:

"SERIAL" CROSS REFERS TO THE SERIAL NUMBER IN THE TEXT OF THE SYLLABUS
"TITLE" ALSO CROSS REFERS TO THE TEXT OF THE SYLLABUS
THERE ARE TWO SEPARATE OPTIONS FOR TRAINING ON THE CLASSES 2, 3, 4, 5, 6, 8 AND 9
"DURATION" IS THE TIME TO BE TAKEN BY EACH MODULE IN "TRAINING UNITS" – EACH UNIT BEING 45 MINUTES
"QUESTIONS" IS THE NUMBER OF QUESTIONS TO BE ASKED IN A MULTIPLE CHOICE EXAMINATION PAPER COVERING THAT MODULE

2006 SYLLABUS – OUTLINE AND OPTIONS

A. INITIAL COURSE

Serial	Title	Duration	Questions	Explanation
1 (001)	Initial Course –General Core Requirements	6	25	UK Core
2	Initial Course – Practical Exercises	4 to 6	Nil	UK Practical Exercises (3)
3 (003)	Initial Course – Packages Core Requirements	3	15	UK Package Module
4	Initial Course – Classes			
	First Option			The first option enables the trainer to run a course covering 7
(013)	Common Characteristics of 7 classes	2	20	classes, and to follow the ADR initial course as set out in Chapter
(014) is	Specific Characteristics – Class 2	1.5	10	8.2.
classes	Specific Characteristics – Class 3	1.5	10	In this option all seven classes must be covered.
2, 3, 6	Specific Characteristics – Class 4	0.5	8	
& 8	Specific Characteristics – Class 5	0.5	8	
	Specific Characteristics – Class 6	0.5	8	
(015) is	Specific Characteristics – Class 8	0.5	8	
classes	Specific Characteristics – Class 9	0.5	8	
4, 5 & 9	Total – First Option	7.5	80	
	Note: Common characteristics will be one paper, and the classes will be taken as two further papers.			
	Second Option			
005	Class 2	2	15	
006	Class 3	2	15	The second option follows the UK classes modules,
007	Class 4	1	10	and enables the trainer to use any combination of
008	Class 5	1	10	from 1 to 9 classes (including classes 1 and 7). At
009	Class 6	1	10	least one class must be included in the course.
011	Class 8	1	10	
012	Class 9	1	10	
	Total – Second Option	9	80	
	TOTALS FOR THE GENERAL INITIAL COURSE	MIN 21 MAX 24	120	
5 (002)	Initial Course – Tanker Specialisation	10 (12)	20	This specialisation may be used instead of serial 3, Packages Core Requirements, or in addition to it. The minimum requirement is for at least one of these.
6 (004)	Initial Course – Class 1 Specialisation	8	20	
7 (010)	Initial Course – Class 7 Specialisation	8	20	
	TOTAL – ALL INITIAL COURSE OPTIONS	MIN 49 MAX 52	180	No time has been included for examinations, which Are taken at the end of the course.

B. REFRESHER COURSE

Serial	Title	Duration	Questions	Explanation
8	Refresher Course – General Core Requirements	2	25	
9	Refresher Course – Practical Exercises	4 to 6	Nil	
10	Refresher Course – Packages Core Requirements	2	15	
11	Refresher Course – General Classes Requirements	Up to 4	Up to 80	
12	Refresher Course – Tankers Specialisation	2	20	
13	Refresher Course – Class 1 Specialisation	3	20	
14	Refresher Course – Class 7 Specialisation	3	20	
	TOTAL DURATION – REFRESHER COURSE (ALL OPTIONS) – UP TO:	22	180	No time has been included for examinations, which are taken at the end of the course.

Candidates taking part in refresher training will sit the same papers as initial candidates.

C. COURSE STRUCTURE

INITIAL COURSES

All initial courses must start with serials 1 and 2 (General Core Requirements and Practical Exercises). These must normally be followed either by serial 3 (Packages Core Requirements), or by serial 5 (Tanker Specialisation) or by both of these.*
The minimum requirement is then at least one class to be taken from serials 4b. 6 or 7. If all 7 classes listed in serial 4 are to be included, the first option (serial 4a.) will be the preferred route. Special examination arrangements are available for candidates taking serials 1, 2, 3 and 4a.
All examinations are to be taken at the end of the course.

*COURSES COVERING CLASSES 1 AND 7

If a candidate wishes to qualify only in class 1, or in class 7, or in classes 1 and 6, it will be permissible for the course to consist of serials 1 and 2 (General Core Requirements and Practical Exercises) and class 1 and/or class 7. NO packages or tanker specialisation modules need be covered when taking advantage of this concession.
Should the candidates who qualify under this concession subsequently wish to add other classes, either the packages module or the tanker module must also be taken.
Candidates for refresher training may also take advantage of this concession, although they may also take all of the modules covered by their current vocational training certificate. There will come a time when candidates who have received their initial training under this concession will require refresher training and the concession will automatically be applicable to refresher training.

REFRESHER COURSES

Candidates may not follow a course which includes any modules not on their current driver training certificate. Any additional modules must follow the initial training syllabus.
Training courses must follow the order; serial 8, then serial 9, followed by either serial 10 or serial 12, (or both of these), and then serials 11, 13 and 14 as appropriate.
The examinations will be of the same standard as those used for the equivalent initial training course, and will be taken at the end of the whole course.
Candidates who are unsuccessful in examinations following refresher training will be required to follow an initial course covering the failed modules before being re-examined.

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	Qu
1	Initial Course General Core Requirement	1. By means of classroom instruction, class participation, the use of illustrative examples (particularly of the regulations in use), appropriate visual aids to impart a knowledge of, and the ability to retain knowledge and to apply to the role of a driver:	a. The general requirements governing the carriage of dangerous goods, and specifically: i. The regulations under which this course of training is acquired, and the conditions under which training is authorised and a driver training certificate is issued ii. The driver's duty to transport dangerous goods safely through knowledge, skill, and careful driving iii. The existence and application of the requirements of national and international regulations, agreements and codes of practice which apply to the transport of dangerous goods as they relate to the duties of the driver in particular, and with reference to the responsibilities of consignors, consignees, operators and the public at large, with specific reference to ADR, RID, IMDG, ICAO, The Carriage Regulations and RAMRoad. iv. The allocation and use of UN numbers v. The existence and application of Packing Groups and Transport Categories.		Syllabus items 1a to 1j inclusive 6 units in total	3
		As above, and also using a suitable visual presentation, eg video, CD or DVD..	b. The main hazards of substances in Classes 2,3,4,5,6,8 and 9.			2
			c. Information on environmental protection in control of the transfer wastes, and specifically: i. The disposal of dangerous goods and wastes. ii. National and international rules on the transfer of wastes.			2

Comment: Need to insert page numbers starting from this page.

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	Questions
1	Initial Course General Core Requirements (Cont)	By means of class room instruction, class participation, the use of illustrative examples (particularly of the regulations in use), appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of a driver: This outcome must include the Video – Security of Dangerous Goods by Road By means of TRANSEC 'Security Advice for Drivers' (attached) By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and ability to retain knowledge and to apply to the role of a driver: By means of class room instruction, Class participation, the use of Illustrative examples (particularly of The regulations in use), appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability	d. What a driver should do and not do in the carriage of dangerous goods, and specifically: i. The non class specific operating procedures to be followed throughout a journey, as required by current national and international regulations including behaviour in tunnels ii. Documents relating to the vehicle and to the driver iii. Instructions in writing for national and international journeys. iv. Checks before setting out, and during the journey v. The equipment to be carried by a vehicle on national and international journeys vi. Vehicle security, supervision and parking rules, both national and international. vii An understanding of High Consequence Dangerous Goods and subsequent use of the Dangerous Load Card viii. Action in the event of a breakdown e. The purpose and the method of operation of technical equipment in use on vehicles, including emergency equipment f. The prohibitions on mixed loading in the same vehicle or container, and in particular; i. The general and specific rules on the		Syllabus items 1a to 1j inclusive 6 units in total	4 1 2

		retain knowledge and to apply to the role of a driver:	segregation of dangerous substances ii. The methods which may be used to segregate substances			
Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	Questions
1	Initial Course General Course Requirements (cont)	By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of a driver:	g. Precautions to be taken during the loading and unloading of dangerous goods, and specifically; i. Procedure at the vehicle loading point ii. Stowage, securing the load, and load security iii. Procedure at the vehicle unloading point.		Syllabus items 1a to 1j inclusive 6 units in total	3
		By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of a driver:	h. General information concerning civil liability, including i. The concept and application of the responsibility for civil liability and duty care to consignors, operators and drivers ii. The basic differences between statute law and common law in the United Kingdom iii. National and international regimes of civil liability, and international conventions.			2
		By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of a driver:	j. Information on multi-modal transport operations, the interrelation of road/sea regulations, and operations at points of interchange			2

Total	6	25 incl 4 from 2.1

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	Questions
2	Initial Course Practical Exercises	1. By means of class room instruction, class participation, the use of illustrative examples, a demonstration of all the equipment which the driver is likely to need to use and the safest way to put it on and take it off, and confirmation using questions, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of a driver:	What to do after an accident (first aid, road safety, basic knowledge about the use of protective equipment, etc), and in particular; i. The types of personal protective equipment available to drivers, and the particular uses and limitations of each type. Guidance on when the equipment should be worn. A demonstration or audio/visual presentation of the safest way to don and remove personal protective equipment, and how to decontaminate it. Equipment to be covered must be a minimum of hard hat, suitable goggles, visors, gloves, respirators and filters, chemical suit, high visibility jacket or vest, and protective footwear. ii. The administration of basic emergency first aid techniques, including assessment of the situation, the need to protect oneself and other people, care of the unconscious casualty, control of bleeding, emergency treatment of burns, and treatment of chemical contamination, including the use of eye wash. iii. The general action to be taken in an emergency involving a potential or actual spillage or release of dangerous materials, during loading, unloading and carriage, and the existence of specific national emergency instructions.		1	4 in serial 1
		2. By means of instruction, followed by an exercise based on a written scenario and completed individually, demonstrate the ability to perform correctly:	What to do in an incident or accident in order to ensure personal safety and that of the public, including: - Informing and co-operating with emergency services - Minimising the consequences of the accident/incident - Warning and protecting the public - Ensuring personal safety - Using and safeguarding information in writing - Attending to the injured - Preventing the escape of hazardous materials, and contamination, including entry into drains and water	To satisfy an <u>experienced and competent instructor</u> that the actions which the candidate will take in the case of an accident or incident will be the most appropriate under the given circumstances	1	Nil

			courses - Dangers in confined spaces - Informing the operator			
Serial	Module	Method	Description	Standard	Training Units	Questions
2	Initial course practical exercises	3.By means of instruction and demonstration, using a suitable resuscitation model, and other members of the class as appropriate, and by practice on the model and on each other as appropriate, demonstrate the ability to perform correctly:	Assessment of the unconscious casualty and the situation in which the casualty is found, checking response and breathing , opening the airway, performing external chest compression,rescue breaths and placing the casualty in the recovery position.	To satisfy a qualified and competent instructor of the ability to perform the listed actions competently and in accordance with the latest and commonly accepted practice.	2.5	Nil
		4. By means of instruction and demonstration, using examples of fire extinguishers, a suitable video and a designated and approved discharge area complete with target area and dry powder or other suitable extinguisher, demonstrate an understanding of and the ability to perform correctly:	The nature of fire and the fire triangle, the importance of good practice and vehicle maintenance in fire prevention, how to extinguish or control tyre fires, the correct identification, selection and uses of the various types of fire extinguishers, how to use a fire extinguisher to put out a fire, and the associated risks of fires, including the release of dangerous gases and particles.	To satisfy an experienced and competent instructor of the ability to direct a dry powder extinguisher at a target on the ground, using the correct fire fighting technique by approaching from upwind, in a crouching posture, and using a sweeping motion for a minimum of 2 seconds.	1.5	Nil
				Total (note – the duration may be reduced if the number of trainees in the class is small – i.e. two or fewer the minimum duration is four teaching units. If the class consists of six or fewer trainees, they maybe completed in five teaching units.	6	Nil

Serial	Module	Outline Method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	Questions
3	Initial Course Packages Core Requirements	1. By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of a driver:	a. The scope and application of national and international rules for the carriage of dangerous goods in packages and in bulk, including Packing Groups, Transport Categories, the definitions of "in scope" loads and exemptions by reason of limited quantity or size of load..		1	4
			b. The UN packaging scheme, including its performance testing (packages and IBCs), certification and application to national and international transport.		0.5	2
			c. The purposes and types of the various packages, containers and bulk carriers in use and their main characteristics, including the need for integrity, durability, containment and pressure retention under conditions of normal use.		0.5	3
			d. The loading and unloading of vehicles, associated procedures including vehicle selection, correct stowage, securing the load, protecting the load, checking for and dealing with leakers, dealing with spillage, and the segregation of incompatible materials.		0.5	2
			e. The operating procedures specific to packaged goods and bulk loads to be followed through both national and international journeys, including documentation, vehicle marking, parking rules and equipment for fire extinguishers, and the ways in which they are to be inspected and marked.		0.5	4
				Total	3	15

Serial	Module	Outline Method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	Questions
4a.	Initial Course Classes First Option. Common Characteristics Of 7 Classes	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of a driver:	The characteristics held in common by substances in classes 2,3,4,5,6,8 and 9, and in particular: i. The sources of information about individual substances, their dangers, and the precautions to be exercised when transporting them ii. The need for containment, and the prevention of escape, through correct packaging and careful handling iii. The need for substances to be segregated from each other, and from other loads. iv. The fact that dangerous substances may have secondary hazards in addition to their primary hazard, and that these may include toxicity, flammability, explosion, corrosivity, oxidation and asphyxiation. v. The effects of the escape of dangerous substances, and the action to be taken in the event of an escape. vi. The significance of the miscibility or immiscibility, specific gravity, flammability, volatility and asphyxiant qualities of dangerous substances, and how to relate these properties to the work place. vii. The need to avoid overheating substances or causing them to ignite, including the avoidance of sources of ignition. viii. The appropriate use of personal protective equipment and antidotes, and the correct methods of decontamination.		2	2 6-7 3 2 0-1 0-1 3-4 2 20
	Specific Characteristics Class 2	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of a driver:	The specific characteristics held by substances in class 2, and in particular: i.The appropriate hazard warning signs ii.The fact that gases may be compressed, liquefied, dissolved under pressure or refrigerated, or a combination of more than one of these methods, and the reasons for this		1.5	0-1 3-4 1 1 1

			iii.The effects of failure of containment iv.The correct methods for handling gas cylinders v.The effects of very low temperatures on human tissue and other materials, and the precautions which need to be taken vi.Flash point, auto-ignition temperature, flammability limits, and liquid to vapour volume ratios Vii.The characteristics and cause of Boiling Liquid Expanding Vapour Explosion.			2 1 20

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	Questio
4a (cont)	Classes – First Option (cont) Specific Characteristics Class 3	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of a driver	The specific characteristics held by substances in class 3, and in particular: i. The appropriate hazard warning sign ii. Flash point, auto-ignition temperature, flammability limits and liquid to vapour volume ratio iii. The significance of the fact that flammable liquids are almost always lighter than water iv. That the vapours of flammable liquids are almost always colourless and heavier than air, and the application of this to the work place		1.5	0-1 4-5 2 3/10
	Specific Characteristics Class 4	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using question, to inculcate a knowledge of, and the ability retain knowledge and to apply to the role of driver:	The specific characteristics held by substances in class 4, and in particular: i. The appropriate hazard warning signs ii. That this class consists of flammable solids, spontaneously combustible substances, and substances which, in contact with water , emit flammable gases iii. The significance of Self Accelerating Decomposition Temperature, the needs and methods of temperature control, and the drivers responsibilities in relation to control temperature and emergency temperature.		0.5	0-1 4-5 3/8
	Specific Characteristics Class 5	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the	The specific characteristics held by substances in class 5, and in particular: i. The appropriate hazard warning signs ii. The effects of oxidation on combustion, even in the absence of air, and the significance of these effects on flammability, fires and fire fighting. That the effects of oxidation may be delayed		0.5	0-1 2-3

		ability retain knowledge and to apply to the role of a driver:	iii. That organic peroxides have combustible elements (carbon and hydrogen) and oxygen in the same molecule, and the significance of this in terms of flammability, stability, and potential explosions iv. The significance of Self Accelerating Decomposition Temperature, the needs and methods of temperature control, and the drivers responsibility in relation to control temperature and emergency temperature.			2 3/8

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	Questi
4a (cont)	Classes – First Option Specific Characteristics Class 6	By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and to apply to the role of a driver:	The specific characteristics held by substances in class 6, and in particular: i. The appropriate hazard warning signs ii. The definitions of the two divisions which make up class 6 iii. That entry to the body may be through inhalation, ingestion or absorption iv. That the effects of toxicity may be either chronic or acute v. The need to segregate class 6 substances from foodstuffs vi. Environmental contamination, the need for rapid decontamination and the use of antidotes.		0.5	0-1 0-1 3 1 1 2/8
	Specific Characteristics Class 8	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver.	The specific characteristics held by substances in class 8, and in particular: i. The appropriate hazard warning sign ii. That corrosive substances have a strong chemical reaction with a wide range of materials in which those materials are usually eroded away iii. That the class consists mainly of acids and alkalis which, although “chemical opposites”, have very similar corrosive effects iv. That the effects of corrosives on many materials, including human tissue, may be delayed, and that the rate of reaction may depend on concentration and temperature		0.5	- 2 0-1 3-4 2/8

			v. That corrosives may react violently, with the production of heat, with water and neutralising agents, and the significance of this in the treatment of spillage and contamination.			

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	Questio
	Specific Characteristics Class 9	By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of , and the ability to retain knowledge and to apply to the role of a driver:	The specific characteristics held by substances in class 9, and in particular, 4i.The appropriate hazard warning sign ii. That class 9 consists of substances which do not clearly belong to any other class, and that the characteristics of each substance will be found in the information in writing iii. The principle examples of substances in this class, and their characteristics		0.5	0-1 4-5 3/8
				Total 4a	7.5	80

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	Qu
4b	Initial Course Second Option UK Class Modules Class 2	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	The characteristics of the three divisions of substances in class 2, the preventative and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, the significance to the driver in the course of normal duties, and in particular: i. The appropriate hazard warning signs ii. Why gases need to be compressed, liquefied, dissolved under pressure, refrigerated, or a combination of these iii. The sources of information about these substances, their dangers and the precautions to be exercised when transporting them iv. The need for containment, the prevention of escape, and the effects of failure in containment of gases in their various states v. The other possible hazards of gases, including toxicity, flammability, explosiveness, corrosivity, oxidation, asphyxiation and the effects of low temperature vi. The effects of very low temperatures on human tissue and other materials, and the precautions which need to be taken vii. The need for care in handling containers of gas, particularly during loading and unloading, and the correct methods for handling gas cylinders viii.The need to avoid the dangers of containers overheating ix. The need to segregate gases from certain other		2	

			substances x. Flash point, auto-ignition temperature, flammability limits, and liquid to vapour volume ratios xi. The characteristics and cause of Boiling Liquid expanding Vapour Explosionxii. The appropriate use of personal protective equipment			
				Total class 2	2	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	Qu
4b (cont)	Initial Course Second Option UK Class Modules (cont) Class3	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	The characteristics of substances in class 3, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, the significance to the driver in the course of normal duties, and in particular: i. The appropriate hazard warning sign ii. That it is vapours, and not liquids that burn, and that the more volatile the liquid is, the greater the danger iii. The sources of information about these substances, their dangers and the precautions to be exercised when transporting them iv. The need to segregate flammable liquids from certain other substances v. The other possible hazards of flammable liquids, including toxicity, corrosivity and asphyxiation vi. That the vapours of flammable liquids are usually colourless and heavier than air, and the significance of these facts to the fire and asphyxiant dangers which they pose vii. Flash point, auto-ignition temperature, flammability limits, and liquid to vapour volume ratios viii. The significance of miscibility or immiscibility and specific gravity to the hazards posed, and to fire fighting ix. That it is the combination of vapour, air and		2	

			ignition source which creates a fire hazard, and the importance of avoiding the exposure of vapours to all sources of ignition, including vehicle components (and the consequent need for good maintenance), sparks, naked flames, hot surfaces, electrical equipment, smoking, and static electricity x. The need to contain vapours xi. The appropriate use of personal protective equipment			
				Total class 3	2	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	
4b (cont)	Initial Course Second Option UK Class Modules (cont) Class 4	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver	The characteristics of substances in chemical class 4, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, the significance to the driver in the course of normal duties, and in particular: i. The appropriate hazard warning signs ii. That this class consists of flammable solids, substances liable to spontaneous combustion and substances which, on contact with water emit flammable gases, and the significance of these sub-divisions to the packaging and transport of the substances in this class iii. The need for containment, prevention of escape, or exposure to situations giving rise to hazards, and the action to be taken in the event of such circumstances arising iv. The need for substances in this class to be segregated from certain other materials v. The fact substances in class 4 may have secondary hazards, such as toxicity, corrosivity and explosiveness vi. The significance of Self Accelerating Decomposition Temperature, the need and methods of temperature control, and the drivers responsibilities in relation to control temperature and emergency temperature vii. The need to avoid overheating substances or causing them to ignite, including avoidance of sources of ignition		1	

			viii. The appropriate use of personal protective equipment and antidotes.			
				Total class 4	1	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	
4b (cont)	Initial Course Second Option UK Class Modules (cont) Class 5	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and to retain knowledge and apply to the role of a driver:	The characteristics of substances in class 5, the preventative and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, the significance to the driver in the course of normal duties, and in particular: i. The appropriate hazard warning signs ii. That this class consists of oxidising substances and organic peroxides, and the significance of these sub-divisions to the packaging and transport (including vehicle requirements) of the substances in this class iii. The need for containment and the prevention of escape through correct packaging and careful handling iv. The need for substances in this class to be segregated from certain other materials v. The fact that substances in this class may have secondary hazards, including flammability, explosion and corrosivity vi. The need to avoid overheating some of these substances, or causing them to be exposed to sources of ignition vii. The effects of oxidation on combustion, even in the absence of air, and the significance of these effects (including delayed effects) on flammability, fires and fire fighting viii. That organic peroxides have combustible elements (carbon and hydrogen) and oxygen in the same molecule,		1	

			and the significance of this in terms of flammability, stability and potential explosives ix. The significance of Self Accelerating Decomposition Temperature, the need and methods of temperature control, and the drivers responsibilities in relation to control temperature and emergency temperature x. The appropriate use of personal protective equipment, and the specific dangers of class 5.2 in relation to damaging eyes.			
				Total class 5	1	1

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	
4b (cont)	Initial Course Second Option UK Class Modules (cont) Class 6	By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	The characteristics of substances in class 6, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, the significance to the driver in the course of normal duties, and in particular: i. The appropriate hazard warning signs ii. That this class consists of toxic and infectious substances, and the significance of these sub-divisions to the special packaging rules and transport of materials in this class iii. The need for containment, prevention of escape, or exposure to situations giving rise to hazards, and the action to be taken in the event of such circumstances arising iv. The need for materials in this class to be segregated from certain other materials, and in particular from foodstuffs v. The fact that materials in class 6 may have secondary hazards, such as flammability and corrosivity vi. That entry to the body may be through inhalation, ingestion or absorption vii. That the effects of class 6 materials may either be acute or chronic, and the significance of the difference		1	

			between the two viii. That there is a particular need for the prevention of environmental contamination ix. The appropriate use of personal protective equipment and antidotes, and in particular the donning and removal of protective clothing in such a manner as to avoid contamination x. The need for rapid decontamination and/or the use of an antidote in the event of exposure.			
				Total class 6	1	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	
4b (cont)	Initial Course Second Option UK Class Modules (cont) Class 8	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording or live demonstrations under safe conditions, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	The characteristics of substances in class 8, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, the significance to the driver in the course of normal duties, and in particular: i. The appropriate hazard warning sign ii. That corrosive substances have a strong chemical reaction with a wide range of materials in which those materials are usually eroded away iii. The significance of the characteristics of corrosive substances to packaging, handling and safe transportation iv. The need for containment, prevention of escape, or exposure to situations giving rise to hazards, and the action to be taken in the event of such circumstances arising v. The need for substances in this class to be segregated from certain other materials vi. The fact that substances in class 8 may have secondary hazards, such as toxicity, flammability and oxidising vii. That the class consists mainly of acids and alkalis which, although “chemical opposites”, have very similar corrosive effects viii. That the effects of corrosives on many materials,		1	

			including human tissue, may be delayed, and that the rate of reaction may depend on concentration and temperature ix. The corrosives may react violently, with the production of heat, with water and neutralising agents, and the significance of this in the treatment of spillage and contamination x. The appropriate use of personal protective equipment xi. The importance of rapid neutralisation and/or decontamination following spillage or contamination.			
				Total class 8	1	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	Que
4b (cont)	Initial Course Second Option UK Class Modules (cont) Class 9	By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	The characteristics of substances in class 9, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, the significance to the driver in the course of normal duties, and in particular: i. The appropriate hazard warning sign ii. That class 9 consists of substances which do not clearly belong to any other class, and that the characteristics of each substance will be found in the information in writing iii. The need for containment, prevention of escape, or exposure to situations giving rise to hazards, and the action to be taken in the event of such circumstances arising iv. The need for substances in this class to be segregated from certain other materials v. The principle examples of substances in this class, and their characteristics vi. The appropriate use of personal protective equipment		1	
				Total class 9	1	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Requirement – to pass the multiple choice question paper, or:	Training Units	
5	Initial Course Tanker Specialisation	By means of class room instruction, class participation, the use of illustrative examples, a video recording demonstrating the possible effects of load movement or unsafe driving, other appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	a. The specific additional provisions applicable to the use of tankers and tank containers, and in particular: i. The definitions of tankers and tank containers in terms of construction and size ii. The responsibilities of employers to provide training on specific vehicles, specific equipment and mechanisms, and with specific loads iii. The national and international requirements for tankers, tank containers and vehicles to be inspected and certified, the documentation and plating of vehicles, and the information displayed on the data plate iv. The general application of national and international (ADR. IMDG, RID) requirements, Approved Codes of Practice and the HAZCHEM List to the operation of tanks and tank containers v. The requirements for vehicles to carry fire extinguishers and other safety equipment. vi. The requirement for vehicles to carry documentation, including instructions in writing about the load, Vocational Training Certificate (VTC), transport documentation, “Certificate of Approval and MOT Certificate. vii. The safety precautions to be taken in the course of loading, unloading and during the journey, including segregation of loads, checks of the vehicle and load including the secure fastening of containers, restrictions on smoking and the use of certain		3	

			equipment. viii. Vehicle security, supervision and parking rules, both national and international, and the parking of detached trailers. ix. The national and international rules for carriage, documentation required and disposal of wastes in tanks and tank containers. x. The UK Hazard Information System, the layout and content of Hazard Warning Panels, emergency action codes, the number and positioning of panels on tankers and tank containers, for both single and multiple loads and the voluntary scheme for low hazard substances.			

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	
5 (cont)	Initial Course Tanker Specialisation (cont)		a. (cont) xi. Placarding and marking of tankers and tank containers under the IMDG code for journeys by sea (including those to islands off the UK mainland), the number, positioning and use of placards for primary and subsidiary risks and for single and multiple loads, proper shipping names, UN numbers and marine pollutant labels, and resistance to sea water. xii. Placarding and marking of tankers and tank containers under ADR, the size, layout and content of Kemler plates, hazard identification numbers, fire resistance, positioning and use of placards. xiii. The relationship of UK, IMDG and ADR codes. xiv. The responsibilities of operators under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations, the need for drivers to provide information, and the occurrences that need to be reported in relation to tanker operations.			
		By means of class room instruction, class participation, the use of illustrative examples, a video recording demonstrating the possible effects of load movement or unsafe driving, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply	b. The specific requirements of the vehicles, and specifically: i. The types of loads for which tanks and tank containers may be designed, including liquefied petroleum gas, flammable liquids, gases transported at very low temperatures, powders and granules, insulated or heated loads, refrigerated loads, foodstuffs (e.g. certain alcoholic beverages), corrosive substances, and wastes. ii. The materials from which tanks and tank containers may be constructed, including stainless steel, mild steel, aluminium, nickel, fibre reinforced plastic, and the various linings which may be used. iii. The construction of tanks and tank containers; “atmospheric” and pressure tanks, compartments and baffles.		2	

		to the role of a driver:	iv. The application of regulations concerning the construction and approval of tanks and vehicles, including stipulations regarding engines and fuel systems, exhausts, electrical systems, stability, rear end projection, fire resistant cabs, and ullage space. v. The ADR requirements for maximum filling ratios and when minimum filling ratios apply. vi. The significance to the loading, unloading and transport of materials of the Maximum Allowable Working Pressure. vii. The fitting and use of sun shields. viii. The purpose, operation, precautions and drivers responsibilities in relation to items of equipment, including: - man lids, seals and bolts - dip sticks - pressure relief, and pressure & vacuum relief valves - bursting discs - flame traps and gauzes - fusible elements - pressure connections and pressure gauges - temperature gauges - outlet valves and manifolds, and valve controls - seals - hoses, hose connections and blanking caps - emergency shut off valves - excess flow valves			
		By means of class room instruction, class participation, the use of illustrative examples, a video recording demonstrating the possible effects of load movement or unsafe driving, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	c. The procedures to be followed in relation to the operation of tanks and tank containers, and in particular: i. Loading vehicles, including the responsibilities of the driver for obeying site rules, reporting to a responsible person, locating emergency equipment, obtaining information in writing, securing the vehicle against accidental movement, ensuring that the correct substance is loaded and that the tank is suitable for the load, ensuring that there is sufficient capacity for the load, taking precautions against contamination of the load, using the appropriate personal protective equipment, earthing the vehicle and taking appropriate action in case of danger or an electrical storm, ensuring that the vehicle is not overloaded and that there is adequate ullage space, controlling the rate of filling, and taking all necessary precautions against fire or explosion ii. Checks during the journey, including ensuring that hoses are secured and have blanking caps in place, that there are no leaks, that components are not overheating, that all documentation is available, and that vehicle markings are in place, clean and clearly visible iii. Unloading vehicles, including the drivers responsibility for: reporting to the		2	

			person in charge, following site rules, locating the emergency equipment, using the appropriate personal protective equipment, ensuring that the load is discharged into the correct tank, and that there is sufficient space for it, providing a sample of the load if required, making the correct connections, taking precautions against accidental movement, fire or explosion or implosion due to the formation of a vacuum, and following the correct procedures for unattended driver discharge or attended driver discharge including obtaining a certificate from a responsible person. iv. The causes and effects of Boiling Liquid Expanding Vapour Explosions v. The causes of static electricity, and the specific precautions to be taken to avoid its dangers, including the use of anti-static and non-sparking tools and clothing vi. The avoidance of overloading and overfilling, including the use of dipsticks, ullage bars, sight glasses, gauges, meters and weigh-bridges vii. The cleaning and purging of tanks and ancillary equipment, e.g. pumps, hoses etc, including the driver's individual responsibilities; techniques, precautions (with particular reference to tank entry), avoidance of implosion, and compliance with COSHH viii. Using appropriate routes, avoiding built up areas, low bridges and routes with restrictions relating to the transport of dangerous goods.			
		By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	d. A general theoretical knowledge of the various and different loading and discharge systems, and specifically: i. Closed and open systems ii. Loading and discharging using gravity or pumps, including the use of pumps or compressors either on the vehicle or external to it iii. The use of tipping tanks, including the use of pressure, use of stabilising legs, precautions in high winds, and the dangers of sticking loads iv. The use of the prime mover engine to drive, through power take off, a pump or compressor, and the proper control of engine speed v. Decompression before disconnection, and the avoidance of implosion vi. Discharge by pump, including pump priming vii. The correct connection of hoses, pumps and syphons, and the correct sequence for valve opening viii. The specific precautions to be taken when loading and unloading dangerous substances (top discharge), LPG, cryogenic gases and dangerous wastes.		2	
		By means of class room instruction, class participation, the use of illustrative examples, a video recording demonstrating the possible effects of load movement or unsafe driving, appropriate	e. The behaviour of vehicles, tankers and tank containers on the road, including movements of the load, and in particular: i. Surge during braking and acceleration, and the need for the driver to anticipate and acclimatise ii. The need for clutch control and appropriate braking techniques, with and without ABS		1	

		visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	iii. Lateral movement due to sudden steering manoeuvres iv. The roles and limitations of baffles and rules on minimum loading ratios v. The responsibility of the driver to avoid danger, jack-knifing and roll-over by anticipation, smooth driving and the control of speed.			
				Total	10	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	
6	Initial course Class 1 Specialisation	By means of class room instruction, class participation, the use of illustrative examples, a suitable video recording, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	a. The definition of explosives, and the classification of explosives into Divisions and Compatibility Groups, and in particular: i. The distinctive characteristics of an explosive ii. Explosions, shock waves, deflagrations and pyrotechnics iii. The Class 1 Divisions, the hazards of each Division, and examples of each division. Unclassified explosives iv. The Compatibility Groups, examples from each Group, the rules relating to mixed loads, and the allocation of responsibilities v. Prohibitions on the carriage of certain loads (e.g. Group K) vi. Definitions of “substance”, “article”, and Net Explosive Quantity		2	
		By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	b. The packaging and labelling of explosives, including: i. The regulations governing packaging and labelling ii. UN approved packaging scheme iii. Labelling requirements for inner packaging, outer packaging and unit loads iv. Checking packages and containers for soundness and security v. Placarding and marking of vehicles and containers. vi. Labelling for subsidiary hazards. vii. The relationships between UK regulations, the IMDG code and ADR. c. The loading, unloading and carriage of explosives, and specifically: i. The responsibilities of consignors, operators and drivers.		1	

		By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and apply to the role of a driver:	ii. The types of vehicles permitted to carry explosives, their characteristics and construction. iii. Maximum permitted loads by type of vehicle. vi. Preparation of vehicles for loading and the loading procedures. vii. Stowage, segregation and load security. viii. Documentation, including information in writing, Vocational Training Certificate (VTC), consignment notes, emergency instructions (N.B. language requirements), and description of materials. ix. Requirements for vehicle equipment, including fire extinguishers. x. Restrictions on smoking and the carriage of sources of ignition. xi. Prohibitions, including certain explosives, passengers, and certain mixed loads xii. Selection of routes, and liaison with the police xiii. The frequency of stops, and checks to be made before leaving and during stops xiv. The requirement for attendants for single vehicles and in convoy, and the qualifications of an attendant xv. Distances from other vehicles during journeys xvi. Vehicle parking and supervision xvii. Vehicle breakdowns and restrictions on repairs xviii. The need for completion without delay, and action in the case of non-delivery xix. The prevention of fire on or near a vehicle and protection against accidental initiation of explosives which are sensitive to electro-magnetic radiation xx. The need for load security, and the measures adopted xxi. Enforcement by the Health and Safety Executive d. The safe and correct loading of a vehicle with various packages of explosives, with due regard to the use of mechanical handling, cleanliness of the vehicle, minimising load height, weight distribution, load restraint and the avoidance of friction.		3	
		By means of instruction, followed by an exercise based on a written scenario and completed individually, demonstrate the ability to perform correctly:	e. The special measures to be taken in the event of an accident or incident involving a vehicle carrying explosives, including clear and prompt communication with the emergency services and the operator, fire prevention and dealing with fires in the vehicle and the load, assessment of the incident, dealing with the public, and evacuation, including “safe distances” and hard cover.	To satisfy an experienced and competent instructor that the candidate has the ability to take into account all of the factors affecting the safe stowage of a variety of packages, with due regard for all of the regulations, and the need to safeguard the driver and all others.	1	

		By means of instruction, followed by an exercise based on a written scenario which progressively introduces graduated levels of hazard, demonstrate the ability to perform correctly:		To satisfy an experienced and competent instructor that the actions to be taken in the case of an accident or incident will be the most appropriate under the given circumstances.	1	
				Total Class 1	8	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	
7	Initial Course Class 7 Specialisation	1. By means of class room instruction, class participation, the use of illustrative examples, appropriate visual aids, and confirmation using questions, to inculcate a knowledge of, and the ability to retain knowledge and to apply to the role of a driver:	a. Specific hazards related to ionising radiation, and in particular: i. How radioactive materials decay, and the significance for packaging and personal protection of the different forms of radiation given off. The concept of background radiation. ii. The effects of radiation on human tissue, including long and short term and genetic effects, and the significance of this to the precautions to be taken iii. The concept of radiation dose, and the use of personal dosemeters (film badges) iv. The Ionising Radiation Regulations, and operating within the rules which may apply to a controlled area v. The fact that radioactive materials may have other harmful effects, including toxicity, corrosivity and flammability, and the significance of these effects in transporting the materials.		2	
			b. Specific requirements concerning packing, handling, mixed loading and stowage of radioactive materials, and in particular: i. The various methods of radiation protection, including time (i.e. limiting exposure), distance, shielding and hygiene ii. The other modal regulations applying to the transport of radioactive materials iii. The responsibilities of consignors, operators and drivers in relation to packaging, labelling, documentation, vehicle marking, and supervision iv. The placarding and marking of vehicles. v. The methods and standards of packaging radioactive materials, including “excepted”, “industrial”, “Type A”, “special form”, the various “Type B” packaging and “Type C”.		4	

		2. By means of instruction, followed by exercises based on written scenarios and completed individually, demonstrate the ability to perform correctly:	vi. The Package Radiation Categories I, II and III, the Transport Index, the Criticality Safety Index, the maximum limits for individual packages and vehicle loads, and the concept of exclusive use. vii. Loading and unloading vehicles, the need to segregate certain materials, and the need for minimum handling. viii. Suitability of vehicles, and the limitations imposed on some vehicle types, including passenger vehicles. Vehicle equipment. ix. The actions to be taken during a journey, including checks before setting out, checks during the journey, supervision and parking (including dealing with the public) carriage of passengers, and breakdown procedures. a. The special measures to be taken in the event of an accident involving a vehicle carrying radioactive materials, including the avoidance of contamination, the need not to leave the vehicle unattended, contacting the emergency services, the carriers' emergency provisions, the purpose and function of the NAIR scheme, and personal decontamination under specialist supervision. b. The safe and correct stowage of a variety of packages containing radioactive materials in a vehicle body.	To satisfy an experienced and competent instructor that the actions to be taken in the case of an accident or incident will be the most appropriate under the given circumstances. To satisfy an experienced and competent instructor that the candidate has the ability to take into account all of the factors affecting the safe stowage of a variety of packages, with due regard for all of the regulations, and the need to safeguard the driver and all others.	1 1	
				Total	8	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	
8	Refresher Course General Core Requirements	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	a. The general requirements governing the carriage of dangerous goods. b. The main hazards of substances in Classes 2, 3, 4, 5, 6, 8 and 9. c. Information on environmental protection in control of the transfer of wastes. d. What a driver should do and not do in the carriage of dangerous goods, including Behaviour in Tunnels and vehicle and load security e. The purpose and method of operation of technical equipment in use on vehicles, including emergency equipment. f. The prohibitions on mixed loading in the same vehicle or container. g. Precautions to be taken during the loading and unloading of dangerous goods. h. General information concerning civil liability. i. Information on multi-modal transport operations, the interrelation of road/rail/sea regulations, and operations at points of interchange. j. All new technical, legal and substance-related developments in the period since the drivers were last		2 in total	

			trained.			
				Total	2	

Serial	Module	Outline method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	
9	Refresher Course Practical Exercises	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	What to do after an accident (first aid, road safety, basic knowledge about the use of protective equipment, etc).		1	
		1. By means of revision and an update on recent changes, followed by an exercise based on a written scenario and completed individually, demonstrate the ability to perform correctly:	What to do in an incident or accident in order to ensure personal safety and that of the public, including: - Informing and co-operating with emergency services - Minimising the consequences of the accident/incident - Warning and protecting the public - Ensuring personal safety - Using and safeguarding instructions in writing - Attending to the injured - Preventing the escape of hazardous materials, and contamination, including entry into drains and water courses - Dangers in confined spaces - Informing the operator	To satisfy an experienced and competent instructor that the actions which the candidate will take in the case of an accident or incident will be the most appropriate under the given circumstances.	1	
		2. By means of revision, update on recent changes, and demonstration, using a suitable resuscitation model, and other members of the class as appropriate, and by practice on the model and on each other as appropriate, demonstrate the ability to perform correctly:	Assessment of the unconscious casualty and the situation in which the casualty is found, checking breathing, opening the airway, performing mouth to mouth ventilation and external chest compression, and placing the casualty in the recovery position.	To satisfy a qualified and competent instructor of the ability to perform the listed actions competently and in accordance with the latest and commonly accepted practice.	2.5	
		3. By means of instruction and revision, an update on recent changes, and demonstration, using examples of fire	The nature of fire and the fire triangle, the importance of good practice and vehicle maintenance in fire prevention, how to extinguish or control tyre fires, the correct	To satisfy an experienced and competent instructor of the ability to direct a dry powder extinguisher at a	1.5	

		extinguishers, a suitable video and a designated and approved discharge area complete with a target area and dry powder extinguishers demonstrate an understanding of and the ability to perform correctly:	identification, selection and uses of the various types of fire extinguishers, how to use a fire extinguisher correctly to put out a fire, and the associated risks of fires, including the release of dangerous gases and particles.	target on the ground of one metre square, using the correct fire fighting technique by approaching from upwind, in a crouching posture, and using a sweeping motion for a minimum of two seconds.		
				Total (see note on page 5 re. numbers)	6	

Serial	Module	Outline Method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	
10	Refresher Course Packages Core Requirements	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	a. The scope and application of national and international rules for the carriage of dangerous goods in packages and in bulk, including Packing Groups, Transport Categories, the definitions of “in scope” loads, exemptions by reason of limited quantities and size of load. b. The UN packaging scheme, including its testing, certification and application to national and international transport. c. The purposes and types of the various packages containers and bulk carriers in use and their main characteristics, including the need for integrity, durability, containment and pressure retention under conditions of normal use. d. The loading and unloading of vehicles, associated procedures including vehicle selection, correct stowage, securing the load, protecting the load, checking for and dealing with leakers, dealing with spillage, and the segregation of incompatible materials. e. The operating procedures specific to packaged goods and bulk loads to be followed through both national and international journeys, including documentation, vehicle marking, parking rules and equipment required to be carried on vehicles, including fire extinguishers and their inspection dates. f. All new technical, legal and substance-related developments in the period since the drivers were last trained.		2 in total	

Total	2	

Serial	Module	Outline Method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	Qu
11.1	Refresher Course Classes Requirements <u>Class 2</u>	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	The characteristics of substances in Class 2, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, any recent changes, and the significance to the driver in the course of normal duties.		4 in total	
11.2	Class 3	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	The characteristics of substances in Class 3, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, any recent changes, and the significance to the driver in the course of normal duties.			
11.3	Class 4	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	The characteristics of substances in Class 4, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, any recent changes, and the significance to the driver in the course of normal duties.			
11.4	Class 5	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	The characteristics of substances in Class 5, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, any recent changes, and the significance to the driver in the course of normal duties.			
11.5	Class 6	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding	The characteristics of substances in Class 6, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, any recent changes, and the significance to the driver in the course of normal duties.			

11.6	Class 8	of: By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	The characteristics of substances in Class 8, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, any recent changes, and the significance to the driver in the course of normal duties.			

*For a detailed breakdown of the numbers of questions, see the equivalent serial in the initial syllabus

Serial	Module	Outline Method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	Qu
11.7	Refresher Course Classes Requirements Class 9	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	The characteristics of substances in Class 9, the preventive and safety measures appropriate to the types of hazard involved, labelling and marking to indicate danger, any recent changes, and the significance to the driver in the course of normal duties.		4 in total	
				Total	4	

*For a detailed breakdown of the numbers of questions, see the equivalent serial in the initial syllabus

Serial	Module	Outline Method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	
12	Refresher Course Tankers Specialisation	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	a. The specific additional provisions and regulations applicable to the use of tankers and tank containers. b. The specific requirements of vehicles in relation to tankers and tank containers. c. The procedures to be followed in relation to the operation of tankers and tank containers. d. A general theoretical knowledge of the various and different loading and discharge systems. e. The behaviour of vehicles on the road, including movements of the load. f. All new technical, legal and substance-related developments in the period since the drivers were last trained.		2 in total	

Total	2	

Serial	Module	Outline Method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	
13	Refresher Course Class 1 Specialisation	By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the licence holder has an understanding of:	a. The definition of explosives, and the classification of explosives into Divisions and Compatibility Groups. b. The packaging and labelling of explosives. c. The loading, unloading and carriage of explosives. d. All new technical, legal and substance-related developments in the period since the drivers were last trained.		2	
		By means of revision, followed by an exercise based on a written scenario and completed individually, demonstrate the ability to perform correctly:	e. The safe and correct loading of a vehicle with various packages of explosives, with due regard to the use of mechanical handling, cleanliness of the vehicle, minimising load height, weight distribution, load restraint and the avoidance of friction.	To satisfy an experienced and competent instructor that the candidate has the ability to take into account all of the factors affecting the safe stowage of a variety of packages, with due regard for all the regulations, and the need to safeguard the driver and all others.	0.5	
		By means of revision, followed by an exercise based on a written scenario which progressively introduces graduated levels of hazard, demonstrate the ability to perform correctly:	f. The special measures to be taken in the event of an accident or incident involving a vehicle carrying explosives, including clear and prompt communication with the emergency services and the operator, fire prevention and dealing with fires in the vehicle and the load, assessment of the incident, dealing with the public, and evacuation, including “safe distances” and hard cover.	To satisfy an experienced and competent instructor that the actions to be taken in the case of an accident or incident will be most appropriate under the given circumstances.	0.5	

Total	3	

Serial	Module	Outline Method – see Manual of Approved Practice for Training Providers for details	Description	Standard Required – to pass the multiple choice question paper, or:	Training Units	
14	Refresher Course Class 7 Specialisation	1. By means of revision, discussion and questions to review the requirements of the syllabus, and to ensure that the certificate holder has an understanding of:	a. The specific hazards related to ionizing radiation. b. The specific requirements concerning packing, handling, mixed loading and stowage of radioactive materials. c. All new technical, legal and substance-related developments in the period since the drivers were last trained.		2	
		2. By means of two exercises based on written scenarios, and completed individually, demonstrate the ability to perform correctly:	a. The special measures to be taken in the event of an accident involving a vehicle carrying radioactive materials, including the avoidance of contamination, the need not to leave the vehicle unattended, contacting the emergency services, the carriers' emergency provisions, the purpose and function of the NAIR scheme, and personal decontamination under specialist supervision.	To satisfy an experienced and competent instructor that the actions to be taken in the case of an accident or incident will be most appropriate under the given circumstances.	0.5	
			b. The safe and correct stowage of a variety of packages containing radioactive materials in a vehicle body.	To satisfy an experienced and competent instructor that the candidate has the ability to take into account all of the factors affecting the safe stowage of a variety of packages, with due regard for all the regulations, and the need to safeguard the driver and all others.	0.5	

Total	3	