



ADR Dangerous Goods Driver Training Qualifications

Class 7

What is this unit about?

Drivers of vehicles carrying radioactive materials of Class 7 shall attend a Specialisation training course.

This UN Class 7 Specialisation course does not cover any other aspect of the ADR course.

What should I know or be able to do before I start?

Have completed an ADR course in accordance with its relevant statutory requirements. After having sat the examination(s) and after having attended the Specialisation course for carriage of radioactive material of Class 7 the candidate shall be allowed to take part in the corresponding examination.

What will I know or be able to do when I achieve this unit?

On successful completion of this unit, you should have sufficient knowledge to be able to effectively carry out your role as a driver of dangerous goods for carriage of radioactive material in Class 7 throughout the UK and Europe, as specified in the current ADR and Domestic Regulations.

What does this involve?

Compulsory attendance on an approved one day training course will be required.

- ◆ A minimum of 8 x 45 minute Teaching units for initial candidates
- ◆ A minimum of 4 x 45 minute Teaching units for refresher candidates

How will this unit be delivered?

This unit will be delivered in accordance with the prescribed standards in a classroom environment with relevant class participation, together with the use of illustrative examples and visual aids.

The practical exercises for this course will be by means of instruction, followed by an exercise based on a written scenario and completed individually to demonstrate the ability to perform correctly.

How will I show that I have achieved this unit?

This unit will be assessed by multiple-choice examination. You must achieve a minimum pass mark of 70%.

Any failed examination must be retaken and successfully completed with any examination passes being held for a maximum of 12 months from original notification of result.

What can I do next?

Progression routes may include further study towards Specialisation courses for carriage in Tanks and/or UN Class 1.

What will I have to do?

Undertake refresher training in the year before expiry of any certificate issued if you wish to continue certification.

Further guidance

This unit is supported by the Department for Transport, HSENI Manual of Practice and The Office of Nuclear Regulation.



Administrative information

unit code: 010
unit title: Class 7

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History of changes

Version	Description of change	Date
1.1	Revision of assessment criteria and reformatting of document.	
1.2	ADR 2019 unit review	November 2018
1.3	ADR 2021 unit review	November 2020

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Guidance for instructors

All content detailed within the tables below must be taught.

Learning objective	Areas to be covered
7.1 Specific risks related to ionising radiation.	<p>7.1.1 The concept of background radiation, the three main types of ionising radiation alpha, beta and gamma. How radioactive materials decay, half-life and the need for packaging and personal protection from the different forms of radiation and subsidiary hazards.</p> <p>7.1.2 The long and short term effects of ionising radiation on people, including genetic effects, and the significance of the precautions to be taken.</p> <p>7.1.3 The Ionising Radiations Regulations 2017, designation of controlled areas and working in compliance with local rules and other requirements as determined from the radiation risk assessment.</p> <p>7.1.4 The concept of radiation dose, the use of personal dose meters and measurements. Including, radiation and contamination, internal and external dose pathways and impact of different physical forms of the radioactive material.</p> <p>7.1.5 Recording of personal radiation doses.</p> <p>7.1.6 The fact that radioactive materials may have other harmful effects, including toxicity, corrosivity, flammability and oxidising, and the significance of these effects in transporting the materials.</p>
Training note: This section must include a suitable video clip or DVD to cover 'The main hazards of Class 7 substances. (<i>Mandatory for initial and refresher courses</i>).	
7.2 Specific requirements concerning packing, handling, mixed loading and stowage of radioactive materials.	<p>7.2.1 The various methods of radiation protection, including containment, time, (ie limiting exposure), distance, shielding and hygiene.</p> <p>7.2.2 The IAEA safety standards and other modal regulations applying to the transportation of radioactive materials, including reference to the most current relevant CDG provisions.</p> <p>7.2.3 The responsibilities of consignors, carriers and drivers in relation to packaging, documentation, vehicle marking and supervision. The additional requirements for HCRM in compliance with ADR 1.10.3 and the requirements of Nuclear Industry Security Regulations 2003 (CDG 2009 (19) Reg 18) for certain material. Identify the Class 7 specific derogations and the alternative driver training options included in S12.</p> <p>7.2.4 The placarding and marking of vehicles, Freight Containers, Tank Containers and Tankers.</p> <p>7.2.5 The methods and standards of packaging for radioactive materials, including, excepted, industrial, Type A, the various Type B, Type C, special form and fissile material.</p>

Learning objective	Areas to be covered
7.2 (cont)	7.2.6 The assignment of categories I — WHITE, II — YELLOW and III — YELLOW to all packages, overpacks and containers. The transport and criticality safety indexes, the maximum limits for individual packages and vehicle loads. Special arrangements and the concept of exclusive use. 7.2.7 Loading and unloading vehicles, the need to segregate certain materials, and the need for minimum handling.
	7.2.8 Vehicle equipment including fire extinguishers same as any other class of dangerous goods. 7.2.9 The actions to be taken during a journey, including checks before setting out and during the journey. Supervision and parking and checks by customs. Carriage of passengers, breakdown procedures and correct delivery procedures.

Table B — Practical Exercises

Learning objective	Areas to be covered
7.3 The special measures to be taken in the event of an accident involving a vehicle carrying radioactive materials.	7.3.1 Avoidance of contamination. 7.3.2 Contacting the emergency services. 7.3.3 Duties of consignors and carriers with regards to emergency arrangements as required by CDG, to include the link between the Radiation Risk Assessment (IRR17) and the Emergency Plan (CDG 2009 (19) Reg 24 and Schedule 2) and the contingency plans under IRR17. 7.3.4. Duties of drivers, carriers and consignors in a radiological emergency in accordance with ONR guidance on emergency/contingency arrangements. 7.3.5 Purpose and function of the NAIR scheme 7.3.6 Personal decontamination under specialist supervision.
Training note: This subject to include an exercise based on a written scenario to be completed individually. <i>(Mandatory for initial and refresher courses).</i>	

7.4 The safe and correct stowage of a variety of packages containing radioactive materials in a vehicle body.	7.4.1 The safe and correct stowage of a variety of packages containing radioactive materials, to include segregation and the maximum transport indexes for both packages and loads.
Training note: This subject to include an exercise based on a written scenario to be completed individually. (<i>Mandatory for initial and refresher courses</i>).	