



ADR Dangerous Goods Driver Training Qualifications Basic Course

What are the ADR Dangerous Goods Driver Training Qualifications?

These are the standards of training, assessment and certification for drivers of vehicles containing dangerous goods, based on the training requirements drawn up by the UK legislation and International agreements. They have been developed to make sure that they comply with the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations (as amended) which apply the provisions of ADR European Agreement concerning the International Carriage of Dangerous Goods by Road Council Directive (as amended).

They are necessary because UK law makes these requirements part of the dangerous goods industry responsibility – a regulatory requirement – to help keep the transportation of dangerous goods safe.

The key areas are

- ◆ The drivers knowledge and skills necessary in their core operational duties
- ◆ The practical application of specific health and safety techniques
- ◆ The preventative and safety measures appropriate to the various types of hazards in Classes 2, 3, 4, 5, 6, 8, 9
- ◆ The specialist knowledge and skills necessary for drivers of vehicles carrying dangerous goods in packages and/or bulk

- ◆ The specialist knowledge and skills necessary for drivers of vehicles carrying dangerous goods in fixed tanks or demountable tanks with a capacity exceeding 1m³, drivers of battery-vehicles with a total capacity exceeding 1m³ and drivers of vehicles carrying dangerous goods in tank containers, portable tanks or MEGCs with an individual capacity exceeding 3m³ on a transport unit
- ◆ The specialist knowledge and skills necessary for drivers of vehicles carrying substances or articles of Class 1
- ◆ The specialist knowledge and skills necessary for drivers of vehicles carrying radioactive material of Class 7

Employers will look for the relevant qualifications when they are appointing new staff for the transportation of dangerous goods. They also expect their existing staff to have these qualifications.

Understanding and applying these skills in these key areas are important because they help you work effectively in your present job and also prepare you for jobs within the sector which you may do in future. Developing your knowledge of the dangerous goods legislation helps you deal with today's rapidly changing world and improve your career prospects. That's also why employers value them.

The Carriage of Dangerous Goods and the Use of Transportable Pressure Equipment Regulations ADR Dangerous Goods Driver Training Basic Course

What is this Unit about?

This specification is based on the training requirements drawn up by the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations (as amended) which apply the provisions of ADR European Agreement concerning the International Carriage of Dangerous Goods by Road Council Directive (as amended). Training shall be given in the form of a course approved by Department for Transport and shall act as the basis of training for all categories of driver. This unit's objectives are:

1. To make drivers aware of hazards arising in the carriage of dangerous goods;
2. To give them basic information indispensable for minimising the likelihood of an incident taking place;
3. To enable them to take measures which may prove necessary for their own safety and that of the public and the environment should an incident take place;
4. For limiting the effects of an incident;
5. To demonstrate drivers' competence through the use of individual practical exercises covering:
 - a. Basic Emergency First Aid;
 - b. Fire Prevention;
 - c. What to do in case of an incident or accident.

This basic course does not cover any aspect of the Tanks Specialisation course, the Specialisation course for carriage of substances and articles of Class 1 or Specialisation course for carriage of radioactive material of Class 7.

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

It is anticipated that those undertaking this unit will have some relevant knowledge gathered by either working in the freight logistics industry or through prior study.

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 throughout the UK and Europe, as specified in the current ADR and UK Regulations. This will enable you to take measures that may prove necessary for your own safety and for that of the public and environment for limiting the effects of an incident. This qualification will provide sufficient evidence to satisfy the training requirements of the relevant statutory provisions.

What might this involve?

Compulsory attendance on an approved 3 day training course will be required.

A minimum of 22 x 45 minute Teaching Units, including practical exercises.

How will this Unit be delivered?

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

The practical exercise will be done by means of:

1. Instruction, followed by an exercise based on a written scenario and completed individually for the emergency incident exercise;
2. 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 for the first aid exercise;
3. Instruction and demonstration, using examples of fire extinguishers and a suitable video for the fire prevention exercise.

How will I show that I have achieved this Unit?

By passing the 3 examinations which consist of 100 multiple-choice questions.

The 3 examinations are:

Core Operational Duties 40 questions

General Classes Paper 1 36 questions

General Classes Paper 2 36 questions

You must achieve a minimum pass mark of 70% in each examination and complete the practical exercises to the satisfaction of the course Instructor. 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.

You will be issued a certificate by the Competent Authority, which is valid for a period of five years from the date of issue.

Note all examinations must be at the end of your training course.

What can I do next?

Progression routes may include further study towards Specialisation courses; carriage of dangerous goods in tanks, Class 1 and 7, further industry sector specific on the job training and practical experience.

What will I have to do?

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

Further Guidance

This unit is supported by the Department for Transport and HSENI Manual of Practice.

Guidance for instructors

The assessment criteria are detailed in Appendices A, B and C.

Appendix A - Core Operational Duties

- ◆ The general requirements governing the carriage of dangerous goods
- ◆ Information on the control of the transfer of wastes and environmental protection
- ◆ Driver responsibilities during the carriage of dangerous goods
- ◆ The prohibitions on mixed loading in the same vehicle or container
- ◆ Information on multimodal transport operations
- ◆ Security and “High Consequence Dangerous Goods”
- ◆ General information concerning civil liability
- ◆ Basic knowledge about the use of personal protective equipment

Appendix B - Practical exercises

- ◆ The administration of basic emergency first aid techniques
- ◆ Fire prevention
- ◆ What to do in the case of an incident or accident

Appendix C - Main Classes

- ◆ Preventative and safety measures appropriate to the various types of hazards in Classes 2, 3, 4, 5, 6, 8, 9

ADMINISTRATIVE INFORMATION

Credit Value

To be advised



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Training and Assessment Specification

These appendices provide detailed information on the requirements for the training and assessment.

Appendix A - Core Operational Duties

Subject	Areas to be covered
9. The general requirements governing the carriage of dangerous goods	<ul style="list-style-type: none"> 9.1.1 Regulations concerning the need for training, to mention the Health & Safety Work Act (section 2) 9.1.2 The drivers duty to transport dangerous goods safely through knowledge, skill and careful driving, Health & Safety Work Act 9.1.3 The requirements of national regulations, international agreements and codes of practice with specific reference to ADR, RID, IMDG, ICAO & Domestic Regulations 9.1.4 How these relate to the duties of the driver 9.1.5 Responsibilities of Consignors, Carriers, Consignees and to the public 9.1.6 The main hazards of substances in Classes 2, 3, 4, 5, 6, 8 and 9 9.1.7 The allocation and purpose of UN Numbers 9.1.8 The allocation and purpose of Packing Groups 9.1.9 The allocation and purpose of Transport Categories 9.1.10 Awareness of the UN Packaging scheme 9.1.11 Package marks and labels 9.1.12 Integrity, durability, containment and pressure retention 9.1.13 IBCs 9.1.14 Definition of carriage in bulk 9.1.15 Exemptions related to Excepted Quantities and Limited Quantities 9.1.16 Exemptions related to quantities carried per transport unit
Training note: This section must include a suitable visual presentation to cover “The main hazards of substances in Classes 2, 3, 4, 5, 6, 8 and 9.”	
Examination Questions: 15	

Subject	Areas to be Covered
9. Information on the control of the transfer of wastes and environmental protection	9.2.1 The disposal of dangerous substances and wastes 9.2.2 Domestic Regulations and International Conventions on the transfer of wastes 9.2.3 Environmentally hazardous substance mark
Examination Questions: 1	

Subject	Areas to be Covered
9. Driver responsibilities during the carriage of dangerous goods	9.3.1 Documents relating to the vehicle, the load and the driver 9.3.2 Instructions in Writing 9.3.3 Vehicle markings (including IMDG) 9.3.4 The miscellaneous equipment to be carried by a vehicle as per ADR 9.3.5 Procedures at the vehicle loading point 9.3.6 Operating vehicle technical equipment 9.3.7 Stowage and restraining of loads 9.3.8 Checks before setting out, during the journey 9.3.9 Traffic restrictions in tunnels, instructions on behavior in tunnels and tunnel codes 9.3.10 Vehicle supervision and parking 9.3.11 Actions in the event of a breakdown 9.3.12 Procedure at the vehicle unloading point
Examination Questions: 8	

Subject	Areas to be Covered
9. The prohibitions on mixed loading in the same vehicle or container	9.4.1 The general and specific rules on the segregation of dangerous substances. 9.4.2 How to segregate dangerous substances
Examination Questions: 2	

Subject	Areas to be Covered
9. Information on multimodal transport operations	9.5.1 Information on multi-modal transport operations, the interrelation of road/sea/rail regulations and operations at points of interchange
Examination Questions: 2	

Subject	Areas to be Covered
9. Security and “High Consequence Dangerous Goods”	9.6.1 High Consequence Dangerous Goods 9.6.2 Use of the Dangerous Load Card 9.6.3 Reporting irregularities, suspicious activities and security incidents 9.6.4 Photographic Identification
Training Note: This outcome must include AV of “Security of Dangerous Goods by Road” and TRANSEC “Security Advice for Drivers”	
Examination Questions: 2	

Subject	Areas to be Covered
9. General information concerning civil liability	9.7.1 The concept and application of the responsibility for civil liability and duty of care to Consignors, Carriers and drivers 9.7.2 The basic differences between Criminal Law (Statute Law) and Civil Law
Examination Questions: 2	

Subject	Areas to be Covered
9. Basic knowledge about the use of personal protective equipment	9.8.1 Types of personal protective equipment 9.8.2 Uses and limitations 9.8.3 Decontamination
Training note: This subject to include audio/visual presentation or instructor demonstration on the safest way to put on and remove personal protective equipment and how to decontaminate it.	
Examination Questions: 2	

Appendix B - Practical Exercises

Subject	Areas to be Covered
9. The administration of basic emergency first aid techniques	9.9.1 Assessing the situation and the unconscious casualty 9.9.2 Emergency treatment of burns 9.9.3 Chemical Contamination 9.9.4 Use of Eyewash 9.9.5 Control of bleeding 9.9.6 Demonstration of CPR & Recovery Position
Training Note: This outcome to be achieved by 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.	
Examination Questions: 2	

Subject	Areas to be Covered
9. Fire Prevention	9.10.1 Fire Triangle 9.10.2 Vehicle Maintenance & Prevention 9.10.3 Types of Fire Extinguishers 9.10.4 Identification and Correct Use of Fire Extinguishers 9.10.5 Associated Risks
Training note: This subject to include a suitable audio/visual presentation	
Examination Questions: 2	

Subject	Areas to be Covered
9. What to do in the case of an incident or accident	9.11.1 General Actions ensuring personal safety 9.11.2 Informing and co-operating with the Emergency Services 9.11.3 Using and safe guarding the Instructions in Writing 9.11.4 Attend to the injured 9.11.5 Actions to be taken in the event of fire 9.11.6 Preventing the escape of dangerous goods and contamination 9.11.7 Reporting procedures and notification of occurrences involving the transport of dangerous goods to the Competent Authority(Informing the Carrier/RIDDOR)
Training note: This subject to include an exercise based on a written scenario to be completed individually.	
Examination Questions: 2	

Appendix C – Main Classes

Subject	Areas to be Covered
<p>9. Preventative and safety measures appropriate to the various types of hazards – Class 2</p>	<p>9.12.1 Characteristics of the three divisions 9.12.2 Danger labels, marking and placards 9.12.3 Why gases need to be compressed, liquefied, dissolved under pressure, refrigerated or a combination of these 9.12.4 Special Packaging 9.12.5 Dangers and precautions to be exercised when transporting gases and actions to be taken in the event of an escape 9.12.6 Other possible dangers including toxicity, flammability, explosiveness, corrosivity, oxidation, asphyxiation 9.12.7 The effects of low temperature on living tissue and other materials 9.12.8 Correct handling of cylinders and avoid overheating 9.12.9 Segregation 9.12.10 BLEVE (Boiling Liquid Expanding Vapour Explosion) 9.12.11 Flammability limits and liquid to vapour volume ratios 9.12.12 Appropriate Personal Protective Equipment to include respiratory protective devices for toxic gases</p>
<p>Examination Questions: 13</p>	

Subject	Areas to be Covered
9. Preventative and safety measures appropriate to the various types of hazards – Class 3	9.13.1 Characteristics of Class 3 substances 9.13.2 Danger labels, marking and placards 9.13.3 Dangers and precautions to be exercised when transporting flammable liquids 9.13.4 Volatility 9.13.5 Vapours above the liquid burn 9.13.6 Vapours are usually colourless and heavier than air increasing the risk of, Asphyxiation and/or Fire 9.13.7 Other possible dangers including toxicity, corrosivity and asphyxiation 9.13.8 Segregation 9.13.9 Flashpoint, auto-ignition temperature, flammability limits (explosives limit) and liquid to vapour volume ratios 9.13.10 Combination of vapour, air and ignition source can create fire hazard 9.13.11 Miscibility and Immiscibility 9.13.12 The need for containment, prevention of escape, or exposure to situations giving rise to dangers, and the action to be taken in the event of such circumstances arising 9.13.13 Types of ignition sources, in particular sparks, naked flames, hot surfaces, electrical equipment, smoking and static electricity 9.13.14 Appropriate Personal Protective Equipment to include respiratory protective devices for toxic vapours
Examination Questions: 15	

Subject	Areas to be Covered
9. Preventative and safety measures appropriate to the various types of hazards – Class 4	9.14.1 Characteristics of the three divisions 9.14.2 Danger labels, marking and placards 9.14.3 Dangers and precautions to be exercised when transporting Class 4 substances 9.14.4 Other possible dangers including toxicity, explosiveness and corrosivity 9.14.5 Drivers duties in relationship to temperature control for certain 4.1 products 9.14.6 Avoiding overheating and sources of ignition 9.14.7 Segregation 9.14.8 Containment and actions on exposure 9.14.9 Appropriate Personal Protective Equipment
Examination Questions: 11	

Subject	Areas to be Covered
9. Preventative and safety measures appropriate to the various types of hazards – Class 5	9.15.1 Characteristics of the two divisions 9.15.2 Danger labels, marking and placards 9.15.3 Dangers and precautions to be exercised when transporting Class 5 substances 9.15.4 Other possible dangers including flammability, explosiveness, toxicity and corrosivity 9.15.5 Effects of oxidation on combustion even in the absence of air 9.15.6 Organic Peroxides contain combustible elements (carbon) and oxygen and the effects of this 9.15.7 Drivers duties in relationship to temperature control for certain 5.2 products 9.15.8 Avoid overheating and sources of ignition 9.15.9 Segregation 9.15.10 Containment and actions on exposure 9.15.11 Appropriate personal protective equipment and the specific dangers of Class 5.2 and eye damage
Examination Questions: 10	

Subject	Areas to be Covered
9. Preventative and safety measures appropriate to the various types of hazards – Class 6	9.16.1 Characteristics of the two divisions 9.16.2 Danger labels, marking and placards 9.16.3 Dangers and precautions to be exercised when transporting Class 6 substances 9.16.4 Other possible dangers including flammability, and corrosivity 9.16.5 Entry into the body may be through inhalation, ingestion or absorption 9.16.6 The effects can be either acute or chronic and the difference of these 9.16.7 Category A & B substances for Class 6.2 9.16.8 Waste from human or animal health care and/or related research 9.16.9 Segregation and in particular from foodstuffs 9.16.10 Special Packaging 9.16.11 Containment and actions on exposure 9.16.12 Appropriate personal protective equipment to include respiratory protective devices 9.16.13 Avoiding contamination when putting on and removing personal protective equipment 9.16.14 The need for rapid decontamination and/or the use of an antidote in the event of exposure
Examination Questions: 8	

Subject	Areas to be Covered
9. Preventative and safety measures appropriate to the various types of hazards – Class 8	9.17.1 Characteristics of Class 8 substances 9.17.2 Danger labels, marking and placards 9.17.3 Dangers and precautions to be exercised when packing, handling and transporting Class 8 substances 9.17.4 Other possible hazards including toxicity, flammability, and oxidising 9.17.5 Strong chemical reaction with a wide range of materials 9.17.6 Contains mostly acids and alkalis although chemically opposites have very similar corrosive effects 9.17.7 Effects on many materials including human tissue may be delayed and the rate of reaction may depend on concentration and temperature 9.17.8 May react violently with heat, water and neutralising agents 9.17.9 Segregation 9.17.10 Containment, actions on exposure and the importance of neutralisation and/or decontamination 9.17.11 Appropriate personal protective equipment to include respiratory protective device
Examination Questions: 9	

Subject	Areas to be Covered
9. Preventative and safety measures appropriate to the various types of hazards – Class 9	9.18.1 Characteristics of Class 9 substances 9.18.2 Danger labels, marking and placards 9.18.3 Principle examples of substances and articles 9.18.4 Environmentally hazardous substances 9.18.5 Segregation 9.18.6 Containment and actions on exposure 9.18.7 Appropriate personal protective equipment
Examination Questions: 6	