

DANGEROUS GOODS AWARENESS COURSE SYLLABUS

<u>CONTENTS</u>	<u>PAGE</u>
Introduction	3
Course Aims	3
Objectives	4
Exam Guidelines / The Exam	5
Your Questions Answered	6

COURSE PROGRAMME

Modules

1. Legislation including Dangerous Goods	7
2. Pesticides, their Properties and UN Classes 1-5	8
3. UN Classes 6-9	9
4. Signs, Symbols, Packing Groups and Packages	10
5. Loading, Unloading and Safe Transport	11
6. PPE including COSHH, Emergency and Security Procedures	12
7. Vehicle Exercise	13
8. Emergency First Aid	14
9. Fire Prevention	16
10. Course Summary	17
Recommended Pre-Course Literature / Reading	18
BASIS Contact Details	19

© BASIS (Registration) Ltd
BASIS is a trade mark of BASIS (Registration) Limited. All rights reserved.
Registered in England No.: 1365343 Charity No.: 1077006 VAT Reg No.: 242/5497/56

INTRODUCTION

This syllabus concerns the training of persons other than drivers holding a vocational training certificate under The Carriage of Dangerous Goods by Road (Driver Training) Regulations 1996.

Persons whose duties concern the carriage of dangerous goods by road should have received training in the requirements governing the carriage of such goods appropriate to their responsibilities and duties according to chapter 1.3 of ADR.

Training requirements specific to security of dangerous goods in chapter 1.10 should also be addressed.

The training requirement applies to the following individuals:

- Employees of road vehicle operators or consignors
- Employees who load or unload dangerous goods
- Employees in freight forwarding
- Employees in shipping agencies
- Drivers of vehicles involved with the carriage of dangerous goods by road (other than those holding a vocational certificate in accordance with 8.2.1. of ADR).

COURSE AIMS

The overall aims of the course are to equip drivers to meet their general obligations under the Food and Environment Protection Act (FEPA 1985) The Carriage of Dangerous Goods by Road (Driver Training) Regulations 1996 and chapter 8.2.1 of ADR.

Note – Candidates will be expected to have a working knowledge of the Highway Code prior to attending the course.

OBJECTIVES

At the end of the course, candidates will be able to:

- Understand their obligation under the Food and Environment Protection Act 1985 and subsequent regulations
- Understand their obligations under the Health and Safety at Work Act 1972 (as amended)
- Understand the identification, packaging, marking and labelling of dangerous goods
- Understand the documentation required for dangerous goods transport
- Understand the thresholds for 'in scope' loads of dangerous goods
- Understand the need for segregation of different types of packaged dangerous goods
- Understand dangerous goods classes and their significance for transport by road
- Understand the principles of safe transport of dangerous goods
- Understand the requirements for additional equipment under The Carriage of Dangerous Goods by Road Regulations
- List the protective clothing (PPE) and spillage equipment required for vehicles transporting dangerous goods
- Explain the purpose of TREM cards or the 'load – pesticides' card and how it should be used
- Identify the correct procedure for cleaning up a spillage of pesticides and safe return to the depot
- List all the first aid requirements for a vehicle carrying pesticides
- Identify the requirements of the Poisons rules and the use of the Poisons Signed Order
- List the correct procedures to follow in the event of a road accident, how to alert other road users and the emergency services
- Understand the requirements for transport security and the possible dangers from criminal activity and terrorism
- Understand the basic requirements of emergency first aid

- Understand the causes of fire and fire protection

Note – This course does not equip candidates to perform first aid techniques – a prescribed first aid training course is recommended.

EXAM GUIDELINES / THE EXAM

The end of course questionnaire consists of 40 multi-choice questions.

All topics tested in the questionnaire are covered in the course though a working knowledge of the Highway Code would also be useful.

There are no trick questions.

All questions can be answered using common sense and some knowledge acquired on the course.

A certificate of competence is awarded to all those who pass the questionnaire and the pass mark is 70%.

PROGRAMME

AM
<ol style="list-style-type: none"> 1) Introduction and Welcome 2) Legislation including Dangerous Goods 3) Pesticides, their Properties & UN Classes 1-4 4) UN Classes 5-9 5) Signs, Symbols, Packing Groups & Packages
PM
<ol style="list-style-type: none"> 6) Loading, Unloading & Safe Transport 7) PPE (inc COSHH), Emergency & Security Procedures 8) Vehicle Exercise 9) Emergency First Aid & Fire Prevention 10) Course Summary <p>Candidate Assessment – Multi-Choice Paper</p>

YOUR QUESTIONS ANSWERED

How can I qualify for a Dangerous Goods Awareness Certificate?

You can qualify by successfully attending the one day BASIS training course and passing the assessment.

When and where are the courses held?

They are generally held from October to March at centres throughout the UK, according to demand. In-company courses can be scheduled on request, where there are viable numbers, either for initial certification or refresher training.

Are the courses practical?

The courses are practically based and little writing is required other than in personal note taking and selecting correct statements in the multi-choice questionnaire.

What about the assessment?

Your ability to understand and implement good practice will be assessed by the course tutor(s) and will be based on your success in the questionnaire and your contribution during the course.

How do I apply to attend a training course?

By completing and returning an application form to the BASIS office. You will be notified when a place is available for you. Every effort is made to place you on a course in your own locality, although this is not always possible.

Do I have to have practical experience before attending a course?

As with any training situation, the more practical experience you have the better, as it helps you relate to the subject being discussed. It is recommended that you have at least six months experience with pesticides or other dangerous goods prior to attending the course. The course is a valuable refresher for those with greater practical experience.

Can I claim CPD points for this course for my BASIS Professional Register Membership?

The Dangerous Goods Awareness course attracts 10 points for members of the BASIS Professional Register.

COURSE PROGRAMME

MODULE 1 – INTRODUCTION TO LEGISLATION INCLUDING DANGEROUS GOODS

1.1 Competence

To develop a knowledge of the main areas of legislation which apply to pesticide handling and transport, with particular reference to dangerous goods.

1.2 Performance Criteria

Candidates must be able to:

- demonstrate a knowledge of the relevant statutory Codes of Practice.
- demonstrate an awareness of the relevant legislation.
- demonstrate a knowledge of the role BASIS plays in the pesticide industry.
- demonstrate a knowledge of the dangerous goods regulations.

1.3 Essential Knowledge and Skills

Candidates must have the ability to:

- describe the main aims of the Food & Environment Protection Act (FEPA) 1985.
- describe the relevant points of the Control of Pesticides Regulations (COPR) 1986 as they relate to pesticide transport.
- describe the pesticide approval process in the UK and harmonisation within the EU.
- recognise the importance of the ACP and its constituent members.
- explain how the dangerous goods legislation is enforced, by whom and in what circumstances.

MODULE 2 – PESTICIDES, THEIR PROPERTIES & UN CLASSES 1-5

2.1 Competence

To develop a knowledge of the properties of pesticides and the requirements for segregation. Develop an understanding of UN Classification and the hazards associated with products in UN Classes 1-5.

2.2 Performance Criteria

Candidates must be able to:

- demonstrate a knowledge of the definitions of a pesticide.
- demonstrate an awareness of the definition of 'pest'.
- demonstrate a knowledge of pesticidal properties.
- demonstrate an awareness of the hazards associated with different pesticide properties.
- demonstrate a knowledge of UN classification of chemicals.
- demonstrate a knowledge of the individual properties of chemicals in Classes 1-5.

2.3 Essential Knowledge and Skills

Candidates must have the ability to:

- describe different pesticides and the types of pest they are designed to control.
- describe different pesticidal properties and the segregation requirements of each.
- describe the consequences for the driver, the public and the environment from exposure to the hazards of UN Classes 1-5.

MODULE 3 – UN CLASSES 6 - 9

3.1 Competence

Develop a knowledge of the hazards associated with products in UN Classes 6 – 9.

3.2 Performance Criteria

Candidates must be able to:

- demonstrate a knowledge of the individual properties of chemicals in Classes 6 – 9.
- demonstrate an awareness of the hazards associated with different pesticide properties in UN Classes 6 – 9.

3.3 Essential Knowledge and Skills

Candidates must have the ability to:

- describe different pesticidal properties of products in UN Classes 6 – 9 and the segregation requirements for each.
- describe the consequences for the driver, public and the environment from exposure to the hazards of UN Classes 6 – 9.

MODULE 4 – SIGNS, SYMBOLS, PACKING GROUPS AND PACKAGES

4.1 Competence

Develop a knowledge of transport signs and package symbols, packing groups and type of packages suitable for dangerous goods transport.

4.2 Performance Criteria

Candidates must be able to:

- demonstrate a knowledge of signs and symbols on pesticide packages.
- demonstrate a knowledge of packing groups and transport categories and the relationship between them
- demonstrate a knowledge of 'in-scope' dangerous goods loads.
- demonstrate a knowledge of packaging types suitable for transport of pesticides and other dangerous goods.

4.3 Essential Knowledge and Skills

Candidates must have the ability to:

- describe the meaning of different packaging symbols.
- describe the influence of packing groups on the calculation of a dangerous goods load.
- describe the method for calculation of a dangerous goods load for products in mixed loads.
- describe the criteria for 'in-scope' loads.
- describe the different types of suitable packaging for pesticide transport.
- describe the rules for transport of packages under Limited Quantity (LQ) provisions.

MODULE 5 – LOADING, UNLOADING AND SAFE TRANSPORT

5.1 Competence

Develop a knowledge of the procedures for loading and unloading goods safely and for safe onward transport.

5.2 Performance Criteria

Candidates must be able to:

- outline the main criteria for handling pesticide products and dangerous goods.
- understand the importance of safety procedures when unloading and stacking packaged goods.
- understand the requirements of the Carriage of Dangerous Goods and the Use of Transportable Pressure Equipment Regulations 2004 (The Carriage Regulations).
- understand the requirements for written instructions for drivers under the regulations.
- outline the requirement for training required by drivers both in-scope and not in-scope of the regulations.

5.3 Essential Knowledge and Skills

Candidates must have the ability to:

- describe the conditions required for safe transport of pesticides.
- explain the differences between transport of dangerous goods in-scope and those not in-scope.
- describe the equipment required on a vehicle for transport of goods in-scope of the Carriage Regulations.
- demonstrate awareness of the training required for drivers of vehicles in-scope of the Regulations.
- demonstrate awareness of the training required for all those involved with dangerous goods transport.
- demonstrate an awareness of the essential load information required for the carriage of dangerous goods.

MODULE 6 – PPE (INCLUDING COSHH), EMERGENCY & SECURITY PROCEDURES

6.1 Competence

Develop a knowledge of the Personal Protective Equipment required for drivers of vehicles carrying pesticides and other dangerous goods in packages. Develop a knowledge of emergency procedures for accidents and accidental spillage. Develop a knowledge of transport security including the video, 'The Security of Dangerous Goods by Road'.

6.2 Performance Criteria

Candidates must be able to:

- demonstrate a knowledge of the essential items of Personal Protective Equipment required on a transport vehicle.
- demonstrate a knowledge of spillage clearance procedures.
- demonstrate an awareness of emergency procedures in the event of an accident.
- demonstrate an awareness of transport security and the requirements for security of the load in transit.

6.3 Essential Knowledge and Skills

Candidates must have the ability to:

- describe items of PPE and their use in the event of an emergency spillage.
- describe the sequence of actions required to clear up a liquid spillage.
- describe the sequence of actions required to clear up a powder / granule spillage.
- describe the actions necessary following an accident in transport when goods may have been damaged on the load.
- describe the essential security measures required to enable dangerous goods to be transported safely and securely.

As part of Module 6 the DfT video 'The Security of Dangerous Goods by Road' will be shown to candidates. A certificate will be available to confirm that candidates have had some transport security training which is acceptable to the Department for Transport and VOSA.

MODULE 7 – VEHICLE EXERCISE

Candidates will assess the equipment and facilities provided on a transport vehicle by completion of a vehicle and driver checklist, using knowledge gained during the day and previous experience. Individual findings will be discussed and compared to determine acceptable standards for pesticide / dangerous goods transport.

MODULE 8 – EMERGENCY FIRST AID

8.1 Competence

Develop a knowledge of Emergency First Aid procedures for drivers of pesticides / dangerous goods vehicles who encounter accidents / incidents on the road.

8.2 Performance Criteria

Candidates must be able to:

- demonstrate a knowledge of emergency First Aid procedures.
- demonstrate a knowledge of safe lifting practices.
- demonstrate an awareness of the 5 point emergency action plan.
- demonstrate an awareness of the relevant legislation related to responsibilities for First Aid in the work place.

8.3 Essential Knowledge and Skills

Candidates must have the ability to:

- describe the procedure to ensure the performance of a safe lift.
- understand how to pick up and set down a load to prevent injury.
- understand the relevance of First Aid and other related legislation.
- understand the relevance of RIDDOR.
- explain the precautions to take when dealing with a casualty.
- describe how to place a casualty into the recovery position.
- describe further action required if the casualty is not breathing and the heart has stopped.
- describe the action required to clear the casualty's airway.
- describe the actions required to perform CPR.
- explain the action required for casualties who are bleeding.

- describe the importance of minimising shock.
- describe the circumstances which can give rise to shock following an accident.
- explain the procedure for reporting accidents.

Note

This course does not aim or intend to equip candidates to perform first aid techniques – but to familiarise them with the actions required to give emergency first aid. A prescribed first aid training course is recommended.

Courses are offered by St John's Ambulance, St Andrew's and the British Red Cross.

MODULE 9 – FIRE PREVENTION

9.1 Competence

To develop a knowledge of safe practices which can reduce the risk of fires.

9.2 Performance Criteria

Candidates must be able to:

- demonstrate an awareness of fire safety procedures.
- demonstrate an awareness of fire safety signage.
- demonstrate an awareness of the 'fire triangle'.
- demonstrate an awareness of the fire extinguisher requirements for vehicles transporting pesticides and other dangerous goods.

9.3 Essential Knowledge and Skills

Candidates must have the ability to:

- describe the actions necessary to prevent fire occurring on transport vehicles.
- understand fire extinguisher types and which is required in each fire situation.
- describe the 'fire triangle' and the significance of its components oxygen, fuel and heat (ignition).
- describe the 'triangle of extinction' and the significance of its components starvation, cooling and blanketing.

MODULE 10 – COURSE SUMMARY

A short review of the course, highlighting the main points prior to setting the multi-choice questionnaire.

A Certificate of Competence is available for all those passing the end of course test at 70% or above.

RECOMMENDED PRE-COURSE LITERATURE / READING

- The Code of Practice for Suppliers of Pesticides to Agriculture, Horticulture and Forestry - the Yellow Code
- The Code of Practice for using Plant Protection Products
- COSHH: A brief guide to the Regulations INDG136(rev3) revised 04/05
- A short guide to the Personal Protective Equipment at Work Regulation 1992 INDG174(rev1) revised 08/05
- The Storage of Packaged Dangerous Substances
HSE Books - ISBN 0717614840

BASIS CONTACT DETAILS

BASIS® (Registration) Ltd

34 St. John Street
ASHBOURNE
Derbyshire
DE6 1GH

Contact: Tracey Harrison

Tel: 01335 340857 / 343945

Fax 01335 346488

E-mail: tracey@basis-reg.co.uk

Web: www.basis-reg.co.uk

BASIS is an independent, self-regulatory registration, standards and certification scheme serving the pesticide, fertiliser and allied organisations and interests. It works with Government to set high standards and check that they are being met. It was one of the world's first standard setters for pesticide suppliers and has also been called upon to assist in establishing similar systems in other parts of the world.

Other activities of BASIS include the annual assessment of pesticide supply stores under The Food & Environment Protection Act 1985 and the running of training courses for industry staff.



May 2008