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Working Party on the Transport of Dangerous Goods

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PROPOSALS FOR AMENDMENTS TO ANNEXES A AND B OF ADR

## CHAPTER 8.2

### Annex

## REQUIREMENTS CONCERNING THE TRAINING OF THE VEHICLE CREW

### 8.2.1 General requirements concerning the training of drivers

- 8.2.1.1 Drivers of vehicles carrying dangerous goods shall hold a [valid driver's](#) certificate issued by the competent authority stating that they have participated in a training course and passed an examination on the particular requirements that have to be met during carriage of dangerous goods.
- 8.2.1.2 Drivers of vehicles carrying dangerous goods shall attend a basic training course. Training shall be given in the form of a course approved by the competent authority. Its main objectives are to make drivers aware of hazards arising in the carriage of dangerous goods and to give them basic information indispensable for minimizing the likelihood of an incident taking place and, if it does, to enable them to take measures which may prove necessary for their own safety and that of the public and the environment, for limiting the effects of an incident. This training, ~~which shall include individual practical exercises,~~ shall act as the basis of training for all categories of drivers covering at least the subjects defined in 8.2.2.3.27. The competent authority may approve [restricted] basic training courses limited to specific dangerous goods or to a specific class or classes. Restricted basic training courses shall not be provided for drivers of vehicles referred to in 8.2.1.4.
- 8.2.1.3 Drivers of vehicles [or MEMUs] carrying dangerous goods in fixed tanks or demountable tanks with a capacity exceeding 1 m<sup>3</sup>, drivers of battery-vehicles with a total capacity exceeding 1 m<sup>3</sup> and drivers of vehicles [or MEMUs] carrying dangerous goods in tank-containers, portable tanks or MEGCs with an individual capacity exceeding 3 m<sup>3</sup> on a transport unit, shall attend a specialization training course for carriage in tanks covering at least the subjects defined in 8.2.2.3.38. The competent authority may approve [restricted] tank specialization training courses limited to specific dangerous

goods or to a specific class or classes. Restricted tank specialization training courses shall not be provided for drivers of vehicles referred to in 8.2.1.4.

8.2.1.4 Drivers of vehicles [or MEMUs] carrying substances or articles of Class 1, other than substances and articles of Division 1.4, compatibility group S (see additional requirement S1 in Chapter 8.5), [drivers of MEMU carrying mixed loads of substances or articles of Class 1 and substances of Class 5.1 (see 7.5.5.2.3) and] drivers of vehicles carrying certain radioactive material (see special provisions S11 and S12 in Chapter 8.5) shall attend specialization training courses covering at least the subjects defined in 8.2.2.3.49 or 8.2.2.3.510.

~~8.2.1.5 When a vehicle driver has, in the 12 month before the date of expiry of his certificate, completed refresher training and has passed a corresponding examination, the competent authority shall issue a new certificate, the period of validity of which shall begin with the date of expiry of the previous certificate.~~

~~8.2.1.6 Initial or refresher basic training courses and initial or refresher specialization training courses may be given in the form of comprehensive courses, conducted integrally, on the same occasion and by the same training organization.~~

8.2.1.75 ~~Initial training courses, refresher t~~Training courses, practical exercises, examinations and the role of competent authorities shall comply with the provisions of 8.2.2.

8.2.1.86 All training certificates conforming to the requirements of this section and issued in accordance with 8.2.2.8-3 by the competent authority of a Contracting Party shall be accepted during their period of validity by the competent authorities of other Contracting Parties.

~~8.2.1.9 (Deleted)~~

## 8.2.2 Special requirements concerning the training of drivers

8.2.2.1 The necessary knowledge and skills shall be imparted by training covering theoretical courses and practical exercises. The knowledge shall be tested in an examination.

8.2.2.2 The training provider shall ensure that the training instructors have a good knowledge of, and take into consideration, recent developments in regulations and training requirements relating to the carriage of dangerous goods. The training shall be practice-related. The training programme shall conform with the approval, on the subjects set out in 8.2.2.3.2-7 to 8.2.2.3.510. The ~~initial training and refresher~~ training shall also include individual practical exercises (see 8.2.2.4-53.6).

### 8.2.2.3 Structure of training

8.2.2.3.1 ~~Initial and refresher t~~Training shall be given in the form of a basic training course and, when applicable, specialization training courses (see 8.2.2.4 and 8.2.2.5).

8.2.2.3.2 Initial or refresher Basic training courses and initial or refresher specialization training courses may be given in the form of comprehensive courses,

conducted integrally, on the same occasion and by the same training organization.

8.2.2.3.3 The total duration of a comprehensive course may be determined by the competent authority, who shall maintain the duration of the basic training course and the specialization training course for tanks, but may supplement it with shortened specialization training courses for Classes 1 and 7.

8.2.2.3.4 Teaching units are intended to last 45 minutes.

8.2.2.3.5 Normally, not more than eight teaching units shall be permitted on each training day.

8.2.2.3.6 Individual practical exercises shall take place in connection with the theoretical basic training course and the specialization training course for carriage in tanks, and shall at least cover first aid, fire-fighting and what to do in case of an incident or accident.

8.2.2.3.27 Subjects to be covered by the basic training course shall be, at least:

- (a) General requirements governing the carriage of dangerous goods;
- (b) Main types of hazard;
- (c) Information on environmental protection in the control of the transfer of wastes;
- (d) Preventive and safety measures appropriate to the various types of hazard;
- (e) What to do after an accident (first aid, road safety, basic knowledge about the use of protective equipment, instructions in writing, etc.);
- (f) Marking, labelling, placarding and orange-coloured plate marking;
- (g) What a driver should and should not do during the carriage of dangerous goods;
- (h) Purpose and the method of operation of technical equipment on vehicles;
- (i) Prohibitions on mixed loading in the same vehicle or container;
- (j) Precautions to be taken during loading and unloading of dangerous goods;
- (k) General information concerning civil liability;
- (l) Information on multimodal transport operations;
- (m) Handling and stowage of packages;
- (n) Traffic restrictions in tunnels and instructions on behaviour in tunnels (prevention of incidents, safety, action in the event of fire or other emergencies, etc.).
- (o) Security awareness.

8.2.2.3.38 Subjects to be covered by the specialization training course for carriage in tanks shall be, at least:

- (a) Behaviour of vehicles on the road, including movements of the load;
- (b) Specific requirements of the vehicles;

- (c) General theoretical knowledge of the various and different filling and discharge systems;
- (d) Specific additional provisions applicable to the use of those vehicles (certificates of approval, approval marking, placarding and orange-coloured plate marking, etc.).

8.2.2.3.49 Subjects to be covered by the specialization training course for the carriage of substances and articles of Class 1 shall be, at least:

- (a) Specific hazards related to explosive and pyrotechnical substances and articles;
- (b) Specific requirements concerning mixed loading of substances and articles of Class 1.

8.2.2.3.510 Subjects to be covered by the specialization training course for the carriage of radioactive material of Class 7 shall be, at least:

- (a) Specific hazards related to ionizing radiation;
- (b) Specific requirements concerning packing, handling, mixed loading and stowage of radioactive material;
- (c) Special measures to be taken in the event of an accident involving radioactive material.

#### 8.2.2.4 *Initial training programme*

8.2.2.4.1 The minimum duration of the theoretical element of each initial [training](#) course or part of the comprehensive course shall be as follows:

Basic training course	18 teaching units <sup>1</sup>
Specialization training course for carriage in tanks	12 teaching units <sup>1</sup>
Specialization training course for carriage of substances and articles of Class 1	8 teaching units
Specialization training course for carriage of radioactive material of Class 7	8 teaching units

~~8.2.2.4.2 The total duration of the comprehensive course may be determined by the competent authority, who shall maintain the duration of the basic training course and the specialization training course for tanks, but may supplement it with shortened specialization training courses for Classes 1 and 7.~~

~~8.2.2.4.3 Teaching units are intended to last 45 minutes.~~

~~8.2.2.4.4 Normally, not more than eight teaching units are permitted on each training day.~~

~~8.2.2.4.5 The individual practical exercises shall take place in connection with the theoretical training, and shall at least cover first aid, fire fighting and what to do in case of an incident or accident.~~

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<sup>1</sup> Additional teaching units are required for practical exercises referred to in [8.2.2.4.53.6 below](#) which will vary depending on the number of drivers under instruction.

**8.2.2.5 Refresher training programme**

8.2.2.5.1 Refresher training undertaken at regular intervals serves the purpose of bringing the drivers' knowledge up to date; it shall cover new technical, legal and substance-related developments.

8.2.2.5.2 Refresher training shall have been completed before the period referred to in 8.2.4.52.8.2 has expired.

8.2.2.5.3 The minimum duration of the theoretical element of each refresher training course or part of the comprehensive course shall be as follows:

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<u>Basic training course</u>	<u>9 teaching units</u> <sup>1</sup>
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<u>Specialization training course for carriage in tanks</u>	<u>6 teaching units</u> <sup>1</sup>
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<u>Specialization training course for carriage of substances and articles of Class 1</u>	<u>4 teaching units</u>
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<u>Specialization training course for carriage of radioactive material of Class 7</u>	<u>4 teaching units</u>
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~~The duration of the refresher training including individual practical exercises shall be of at least two days.~~

~~8.2.2.5.4 Normally, not more than eight teaching units shall be permitted on each training day.~~

**8.2.2.6 Approval of training**

8.2.2.6.1 The training courses shall be subject to approval by the competent authority.

8.2.2.6.2 Approval shall only be given with regard to applications submitted in writing.

8.2.2.6.3 The following documents shall be attached to the application for approval:

- (a) A detailed training programme specifying the subjects taught and indicating the time schedule and planned teaching methods;
- (b) Qualifications and fields of activities of the teaching personnel;
- (c) Information on the premises where the courses take place and on the teaching materials as well as on the facilities for the practical exercises;
- (d) Conditions of participation in the courses, such as number of participants.

8.2.2.6.4 The competent authority shall organize the supervision of training and examinations.

8.2.2.6.5 Approval shall be granted in writing by the competent authority subject to the following conditions:

- (a) The training shall be given in conformity with the application documents;
- (b) The competent authority shall be granted the right to send authorized persons to be present at the training courses and examinations;
- (c) The competent authority shall be advised in time of the dates and the places of the individual training courses;

- (d) The approval may be withdrawn if the conditions of approval are not complied with.

8.2.2.6.6 The approval document shall indicate whether the courses concerned are basic or specialization training courses, initial or refresher training courses, and whether they are limited to specific dangerous goods or to a specific class or classes.

8.2.2.6.7 If the training body, after a training course has been given approval, intends to make any alterations with respect to such details as were relevant to the approval, it shall seek permission in advance from the competent authority. This applies in particular to changes concerning the training programme.

### **8.2.2.7 Examinations**

8.2.2.7.1 *Examinations for the ~~initial~~-basic [or restricted basic training] course*

8.2.2.7.1.1 After completion of the basic training [or restricted basic training], including the practical exercises, an examination shall be held on the basic [or restricted basic training] course.

8.2.2.7.1.2 In the examination, the candidate has to prove that he has the knowledge, insight and skill for the practice of professional driver of vehicles carrying dangerous goods as provided in the basic training [or restricted basic training] course.

8.2.2.7.1.3 For this purpose the competent authority, ~~or the examination body approved by that authority,~~ shall prepare a catalogue of questions which refer to the items summarized in 8.2.2.3.27. Questions in the examination shall be drawn from this catalogue. The candidates shall not have any knowledge of the questions selected from the catalogue prior to the examination.

8.2.2.7.1.4 A single examination for a comprehensive courses may be held.

8.2.2.7.1.5 Each competent authority shall supervise the modalities of the examination.

8.2.2.7.1.6 The examination shall take the form of a written examination or a combination of a written and oral examination. Each candidate shall be asked at least 25 written questions for the initial basic training course and at least 15 written questions for the refresher basic training course. The duration of these examinations shall be at least 45 or 30 minutes respectively. The questions may be of a varying degree of difficulty and be allocated a different weighting.

8.2.2.7.2 *Examinations for ~~initial~~-specialization [or restricted specialization] training} courses for carriage in tanks or for carriage of ~~explosive~~-substances and articles of Class 1 or radioactive material of Class 7*

8.2.2.7.2.1 After having sat the examination on the basic course and after having attended the specialization [or restricted specialization] training} course for carriage in tanks or for the carriage of explosive-substances and articles of Class 1 or radioactive material of Class 7, the candidate shall be allowed to take part in the corresponding examination.

8.2.2.7.2.2 This examination shall be held and supervised on the same basis as in 8.2.2.7.1. The catalogue of questions shall refer to the items summarized in 8.2.2.3.38, 8.2.2.3.49 or 8.2.2.3.510, as appropriate.

~~8.2.2.7.2.3~~ With respect to each specialization training course, At-at least 15 written questions shall be asked for the initial training course and at least 10 written questions shall be asked for the refresher training course with respect to each specialization course. The duration of these examinations shall be at least 30 minutes respectively.

~~8.2.2.7.2.4~~ If an examination is based on a restricted basic training course, this limits the examination of the specialization course to the same scope.

~~8.2.2.7.3~~ Examinations for refresher training

~~8.2.2.7.3.1~~ After having undertaken refresher training the candidate shall be allowed to take part in the corresponding examination.

~~8.2.2.7.3.2~~ The examination shall be held and supervised on the same basis as set out in 8.2.2.7.1.

~~8.2.2.7.3.3~~ In the examination at least 15 questions shall be asked with respect to the refresher training.

~~8.2.2.7.4~~ If an examination is based on a restricted basic training course, this limits the examination of the specialization course to the same scope.

## **8.2.2.8 Certificate of driver's training**

8.2.2.8.1 According to 8.2.1.86, the certificate shall be issued:

- (a) After completion of a basic training course, provided the candidate has successfully passed the examination in accordance with 8.2.2.7.1;
- (b) If applicable, after completion of a specialization course for carriage in tanks or carriage of substances and articles of Class 1 or radioactive material of Class 7, or after having acquired the knowledge referred to in special provisions S1 and S11 in Chapter 8.5, provided the candidate has successfully passed an examination in accordance with 8.2.2.7.2.
- (c) If applicable, after completion of a restricted basic or restricted tank specialization training course, provided the candidate has successfully passed the examination in accordance with 8.2.2.7.1 or 8.2.2.7.2. The certificate issued shall clearly indicate its limited scope of validity to the relevant dangerous goods or class(es).

~~8.2.2.8.2~~ The certificate shall be renewed if the candidate furnishes proof of his participation in refresher training in accordance with 8.2.1.5 and if he has passed an examination in accordance with 8.2.2.7.3. The date of validity of a driver's certificate shall be five years from the date the driver passes a basic [or restricted basic] training examination or an examination based on a comprehensive course.

When a driver has completed appropriate training according to this Chapter and passed the corresponding examination within 12 months before the date of expiry of the certificate, the validity shall be extended by five years, beginning with the date of expiry of the certificate.

When a driver has passed a specialization [or restricted specialization] training examination, this shall only be valid until the date of expiry of the certificate.

8.2.2.8.3 The certificate shall have the layout of the model shown in 8.2.2.8.5. Its dimensions shall be in accordance with ISO 7810:2003 ID-1 and it shall be made of plastic. The colour shall be white with black lettering. It shall include an additional security feature such as a hologram, UV printing or guilloche patterns.

[8.2.2.8.4 The certificate shall be prepared in the language or one of the languages of the country of the competent authority which issued the certificate and, if this language is not English, French or German, also in English, French or German, except where otherwise provided by agreements concluded between the countries concerned with the transport operation.]

[“8.2.2.8.5 Model for the training certificate for drivers of vehicles carrying dangerous goods:

**Front**

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**ADR DRIVER TRAINING CERTIFICATE**

**\*\***

1. (CERTIFICATE NO.:\*)  
2. (SURNAME:\*)  
3. (OTHER NAME(S):\*)  
4. (DATE OF BIRTH: dd/mm/yyyy\*)  
5. (NATIONALITY:\*)  
6. (DRIVER SIGNATURE:\*)  
7. \*\*\* ;dd/mm/yyyy\*)  
(VALID UNTIL: dd/mm/yyyy\*)

(Insert driver photograph\*)

**Back**

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**VALID FOR CLASS(ES) OR UN Nos.:**

\*\*\*

<b>TANKS</b>	<b>OTHER THAN TANKS</b>
8.(Enter Class/Div or UN Number(s)*)	9.(Enter Class/Div or UN Number(s)*)
10. <span style="background-color: #cccccc; padding: 0 20px;">***</span> :	
National comments:]	

\* Insert details as appropriate.

\*\* Distinguishing sign for motor vehicles in international traffic prescribed in the Vienna Convention on Road Traffic (1968).”]

\*\*\* This space is reserved for the official language of the issuing country, if this language is not English, French or German