INTRODUCTORY NOTE

The successful application of regulations concerning the transport of dangerous goods and the achievement of their objectives are greatly dependent on the appreciation by all individuals concerned of the risks involved and on a detailed understanding of the regulations. This can only be achieved by properly planned and maintained initial and recurrent training programmes in the transport of dangerous goods for all persons concerned.

Chapter 4

TRAINING

Parts of this Chapter are affected by State Variations AE 2, BR 7, CA 11, HK 1; see Table A-1

4.1 ESTABLISHMENT OF TRAINING PROGRAMMES

- 4.1.1 Initial and recurrent dangerous goods training programmes must be established and maintained by or on behalf of:
- a) shippers of dangerous goods, including packers and persons or organizations undertaking the responsibilities of the shipper;
- b) operators;
- c) ground handling agencies which perform, on behalf of the operator, the act of accepting, handling, loading, unloading, transferring or other processing of cargo or mail;
- d) ground handling agencies located at an airport which perform, on behalf of the operator, the act of processing passengers;
- e) agencies, not located at an airport, which perform, on behalf of the operator, the act of checking in passengers;
- f) freight forwarders;
- g) agencies engaged in the security screening of passengers and crew and their baggage and/or cargo or mail; and
 - h) designated postal operators.

4.1.2 Dangerous goods training programmes required by 4.1.1 b) must be subjected to review and approval by the appropriate authority of the State of the Operator. Dangerous goods training programmes required by 4.1.1 h) must be subjected to review and approval by the civil aviation authority of the State where the mail was accepted by the designated postal operator. Dangerous goods training programmes required by other than 4.1.1 b) and h) should be subjected to review and approval as determined by the appropriate national authority.

4.2 TRAINING CURRICULA

- 4.2.1 Personnel must be trained in the requirements commensurate with their responsibilities. Such training must include:
- a) general familiarization training which must be aimed at providing familiarity with the general provisions;
- b) function-specific training which must provide detailed training in the requirements applicable to the function for which that person is responsible; and
- c) safety training which must cover the hazards presented by dangerous goods, safe handling and emergency response procedures.

4.2.2 Personnel identified in the categories specified in Table 1-4, 1-5 or 1-6 must be trained or training must be verified prior to the person performing any duty specified in Table 1-4, 1-5 or 1-6.

4.2.3 Recurrent training must be provided within 24 months of previous training to ensure knowledge is current. However, if recurrent training is completed within the final three months of validity of previous training, the period of validity extends from the month on which the recurrent training was completed until 24 months from the expiry month of that previous training.

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4.2.4 A test to verify understanding must be provided following training. Confirmation that the test has been completed satisfactorily is required.

- 4.2.5 A record of training must be maintained which must include:
- a) the individual's name;
- b) the most recent training completion month;
- c) a description, copy or reference to training materials used to meet the training requirements;
- d) the name and address of the organization providing the training; and
- e) evidence which shows that a test has been completed satisfactorily.

Training records must be retained by the employer for a minimum period of 36 months from the most recent training completion month and must be made available upon request to the employee or appropriate national authority.

4.2.6 The subject matter relating to dangerous goods transport with which various categories of personnel should be familiar is indicated in Table 1-4.

Staff of operators not carrying dangerous goods as cargo or mail must be trained commensurate with their 4.2.7 responsibilities. The subject matter to which their various categories of staff should be familiar with is indicated in Table 1-5.

Note.— Security staff are required to be trained irrespective of whether the operator on which passenger or cargo is to be transported carries dangerous goods as cargo.

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Table 1-4.	Content of training courses
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		Shippers and packers		Freight Forwarders		Operators and ground handling agents			Security staff			
- Aspects of transport of dangerous	Categories of Staff											
goods by air with which they should be familiar, as a minimum	1	2	3	4	5	6	7	8	9	10	11	12
General philosophy	х	х	Х	х	х	х	х	х	х	х	х	х
Limitations	х		х	х	х	х	х	х	х	х	х	х
General requirements for shippers	х		х			х						
Classification	х	х	х			х						х
List of dangerous goods	х	х	х			х				х		
Packing requirements	х	х	х			х						
Labelling and marking	х	х	х	х	х	х	х	х	х	х	х	х
Dangerous goods transport document and other relevant documentation	х		x	х		x	x					
Acceptance procedures						х						
Recognition of undeclared dangerous goods	x	x	х	х	х	x	х	х	х	х	x	x
Storage and loading procedures					х	х		х		х		
Pilots' notification						х		х		х		
Provisions for passengers and crew	х	х	х	х	х	х	х	х	х	х	х	х
Emergency procedures	х	х	х	х	х	х	х	х	х	х	х	х

CATEGORIES

Shippers and persons undertaking the responsibilities of shippers 1 —

Packers 2 —

Staff of freight forwarders involved in processing dangerous goods 3 —

Staff of freight forwarders involved in processing cargo or mail (other than dangerous goods) 4 —

5 — 6 — Staff of freight forwarders involved in the handling, storage and loading of cargo or mail

Operator's and ground handling agent's staff accepting dangerous goods

- 7 Operator's and ground handling agent's staff accepting cargo or mail (other than dangerous goods)
- 8 Operator's and ground handling agent's staff involved in the handling, storage and loading of cargo or mail and baggage
- 9 Passenger handling staff
- ≠ 10 Flight crew members, loadmasters, load planners and flight operations officers/flight dispatchers
- 11 Crew members (other than flight crew members)
- ≠ 12 Security staff who are involved with the screening of passengers and crew and their baggage and cargo or mail, e.g. security screeners, their supervisors and staff involved in implementing security procedures

Table 1-5. Content of training courses for operators not carrying dangerous goods as cargo or mail

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Contents	Categories of staff						
Contents	13	14	15	16	17		
General philosophy	Х	Х	Х	Х	Х		
Limitations	Х	Х	Х	Х	Х		
Labelling and marking	Х	Х	Х	Х	Х		
Dangerous goods transport document and other relevant documentation	х						
Recognition of undeclared dangerous goods	Х	Х	Х	Х	Х		
Provisions for passengers and crew	Х	Х	Х	Х	Х		
Emergency procedures		Х	Х	Х	Х		

≠ CATEGORIES

- \neq 13 Operator's and ground handling agent's staff accepting cargo or mail (other than dangerous goods)
- ≠ 14 Operator's and ground handling agent's staff involved in the handling, storage and loading of cargo or mail (other than dangerous goods) and baggage
- ≠ 15 Passenger handling staff
- ≠ 16 Flight crew members, loadmasters, load planners and flight operations officers/flight dispatchers
- ≠ 17 Crew members (other than flight crew members)

Note 1.— Depending on the responsibilities of the person, the aspects of training to be covered may vary from those shown in Tables 1-4 and 1-5. For example, in respect of classification, staff involved in implementing security procedures (e.g. screeners and their supervisors) need only be trained in the general properties of dangerous goods.

Note 2.— The categories of personnel identified in Tables 1-4 and 1-5 are not all encompassing. Personnel employed by or interacting with the aviation industry in areas such as passenger and cargo reservation centres, and engineering and maintenance, except when acting in a capacity identified in Table 1-4 or 1-5, should be provided with dangerous goods training in accordance with 4.2.

4.2.8 Staff of designated postal operators must be trained commensurate with their responsibilities. The subject matter to which their various categories of staff should be familiar with is indicated in Table 1-6.

4.3 INSTRUCTOR QUALIFICATIONS

4.3.1 Unless otherwise provided for by the appropriate national authority, instructors of initial and recurrent dangerous goods training programmes must have adequate instructional skills and have successfully completed a dangerous goods training programme in the applicable category, or Category 6, prior to delivering such a dangerous goods training programme.

4.3.2 Instructors delivering initial and recurrent dangerous goods training programmes must at least every 24 months deliver such courses, or in the absence of this attend recurrent training.

Aspects of transport of dangerous goods by air with which they should be familiar, as a minimum		Designated postal operators				
	Categories of staff					
	А	В	С			
General philosophy	х	х	х			
Limitations	х	х	х			
General requirements for shippers	х					
Classification	х					
List of dangerous goods	х					
Packing requirements	х					
Labelling and marking	х	х	х			
Dangerous goods transport document and other relevant documentation	x	x				
Acceptance of the dangerous goods listed in 1;2.3.2	х					
Recognition of undeclared dangerous goods	х	х	х			
Storage and loading procedures			х			
Provisions for passengers and crew	х	х	х			
Emergency procedures	х	х	х			

Table 1-6. Content of training courses for staff of designated postal operators

CATEGORIES ≠

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Staff of designated postal operators involved in accepting mail containing dangerous goods Staff of designated postal operators involved in processing mail (other than dangerous goods) В —

С — Staff of designated postal operators involved in the handling, storage and loading of mail

Note.— Guidance on the aspects of training to be covered by staff of designated postal operators can be found in S-1;3.

4.4 COMPETENCY-BASED TRAINING AND ASSESSMENT

Competency-based training and assessment should be used in accordance with the general provisions contained in Chapter 2 of the *Procedures for Air Navigation Services — Training* (PANS-TRG, Doc 9868).

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