

TECHNICAL GUIDANCE MATERIAL

for Competency-Based Training and Assessment Approach to Dangerous Goods

SUBJECT: TECHNICAL GUIDANCE MATERIAL FOR COMPETENCY-BASED APPROACH TO

DANGEROUS GOODS TRAINING AND ASSESSMENT

EFFECTIVE DATE: 09 June 2022

APPLICABILITY

This technical guidance material is applicable to all operators, training organisations and other entities dealing with Air cargo and Dangerous Goods in the Republic of South Africa and is to be used in conjunction with the ICAO Technical Instructions for the Safe Transport of Dangerous Goods and applicable Civil Aviation Regulations (CARs) and Civil Aviation Technical Standards (CATs), as amended. IATA Dangerous Goods Regulations may also be used.

PURPOSE

The purpose of this user guide is to provide guidance in implementing a dangerous goods competency-based training and assessment programme for personnel involved in the transport of Cargo, Mail, Passengers and baggage by air.

REQUIREMENTS

The ICAO Dangerous Goods Panel introduced the Competency Based Training and Assessments approach in 2017 and has allowed states to align their Dangerous Goods training regimes before the end of 31 December 2022. The changes require employers defined in applicability to amend their training programs accordingly. The training programs shall be submitted to the SACAA for approval.

1. REFERENCE:

- i. ICAO Annex 18
- ii. ICAO Doc 9284, Technical Instructions for the Safe Transport of Dangerous Goods by Air
- iii. ICAO Doc 10147, Guidance on a Competency-Based Approach to Dangerous Goods Training and Assessment
- iv. ICAO Doc 9868, Procedures for Air Navigation Services Training
- v. Civil Aviation Regulations, 2011
- vi. Civil Aviation Technical Standards
- vii. IATA, DGR 63rd Edition, Appendix H

2. TERMS AND ABBREVIATIONS:

TERM	DEFINITION
Attitude	Attitude is a persisting internal mental state or disposition that can be learned and that influences an individual's choice of personal action toward an object, person or event. Attitudes have affective components, cognitive aspects and
Competency	behavioural consequences. To demonstrate the "right" attitude, a learner needs to know how to "be" in a given context. A dimension of human performance that is used to reliably predict successful performance on the job. A competency is manifested and observed through behaviours that mobilize the relevant knowledge, skills and attitudes to carry out activities or tasks under specified conditions.
Competency Standard	A level of performance that is defined as acceptable when assessing whether or not competency has been achieved
Competency-based training and assessment	Training and assessments that are characterized by performance orientation, emphasis on standard performance and their measurement, and the development of training to the specified activities or tasks under specified conditions
Conditions	Anything that may qualify a specific environment in which performance will be demonstrated
ICAO competency Framework	A competency framework, developed by ICAO, is a selected group of competencies for a given aviation discipline. Each competency has an associated description and observable behaviours
Knowledge	Knowledge is specific information required to enable a learner to develop and apply the skills and attitudes to recall facts, identify concepts, apply rules or principles, solve problems, and think creatively in the context of work.
Observable behaviour	A single role-related behaviour that can be observed and may or may not be measurable.
Performance criteria	Statements used to assess whether the required levels of performance have been achieved for a competency. A performance criterion consists of an
Skill	observable behaviour, condition(s) and a competency standard Skill is an ability to perform an activity or action. It is often divided into three types: motor, cognitive and metacognitive skills.

ABBREVIATION	DES	DESCRIPTION		
ATO Aviation Training Organisations				
CARs		Aviation Regulations		
CATs		Civil Aviation Technical Standards		
CBTA	Com	Competency-Based Training and Assessment		
DG	Dang	Dangerous Goods		
E: AVSEC	Exec	Executive: Aviation Security		
FOM/OM	Fligh	Flight Operations Manual Operations Manual		
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M: DG Manager: Dangerous Goods

OJT On the Job Training

POI Principal Operations Inspector
SACAA South African Civil Aviation Authority

SM Senior Manager

SM: DG & CS Senior Manager: Dangerous Goods and Cargo Security

SMS Safety Management System SSP State Safety Programme

3. GENERAL

3.1 ESTABLISHMENT OF DANGEROUS GOODS TRAINING PROGRAMMES

3.1.1 INTRODUCTION

- a. All operators, training organizations and other entities involved in transport of cargo, mail, passengers and their baggage by air must establish a competency-based training and assessment approach program.
- b. A training program must include elements such as design methodology, assessment, initial and recurrent training, instructor qualifications and competencies, training records and evaluation of the effectiveness of training.
- c. The employer must establish and maintain a Dangerous Goods training program for personnel performing any function described in these Instructions.
- d. The employer who does not have the resources to train their personnel in-house may utilize services of third-party training providers. However, the employer is still responsible for determining the training needs for employees, ensuring the employees acquire the necessary competent level to perform their functions and evaluating how well the program and/or course provided by third providers can address the needs before selecting a training provider.
- e. The employer may outsource knowledge training, but the "on the job" (OJT) competency assessment or simulation must be conducted inhouse utilizing the knowledge from training, standard operating procedures, and all other regulatory procedures applicable to the operator's environment pertinent to carrying out a particular function the trainee is being assessed on.
- f. All operators must establish a Dangerous Goods training program regardless of whether or not they are approved to transport Dangerous Goods as cargo.

3.2 OBJECTIVE OF DANGEROUS GOODS TRAINING

- 3.2.1 The main goal of competency-based training and assessment is to produce a competent workforce by providing focused training. It does so by identifying key competencies that need to be achieved, determining the most effective way of achieving them and establishing valid and reliable assessment tools to evaluate their achievement.
- 3.2.2 A competency is defined as a dimension of human performance that is used to reliably predict successful performance on the job. It is manifested and observed through behaviour that mobilize the relevant knowledge, skills and attitudes to carry out activities or tasks under specified conditions. A competency framework with associated performance criteria provides a means of assessing whether trainees achieve the desired performance. A competency framework and associated task list for dangerous goods personnel are described in ICAO Doc 10147, IATA DGR Appendix H and is also included in this guidance material for easy reference.

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3.2.3 A critical feature of competency-based training is assessment to ensure training is efficient and effective in developing the skills, knowledge and attitudes required to perform the function competently.

3.3 BENEFITS OF COMPETENCY-BASED TRAINING AND ASSESSMENT FOR THE SAFE TRANSPORT OF DANGEROUS GOODS BY AIR

- 3.3.1 The main benefit of a competency-based approach to training and assessment is its potential to encourage and enable personnel to reach their highest level of capability while ensuring a basic level of competence as a minimum standard. It does this by:
 - a. targeting specific training needs;
 - b. supporting continuous learning and performance improvement;
 - c. gearing towards learning rather than simply passing a test;
 - d. ensuring the integration of the knowledge, skills and attitudes needed to perform effectively; and
 - e. establishing sufficient, well-trained, and competent instructors.

3.4 RELATIONSHIP BETWEEN COMPETENCY-BASED TRAINING AND ASSESSMENT AND SAFETYMANAGEMENT

- 3.4.1 Safety is ICAO's guiding and most fundamental strategic objective. ICAO Annex 19 to the Convention on International Civil Aviation Safety Management contains Standards and Recommended Practices (SARPs) intended to assist States in managing aviation safety risks. The foundation of safety management is the implementation of a State Safety Programme (SSP) by States and safety management systems (SMS) by service providers. An operator's SMS addresses the aviation activities that are related to the safe operation of the aircraft in accordance with Annex 6, Part I or Part III. These aviation activities include the carriage of dangerous goods. Other entities in the dangerous goods transport chain should be encouraged to implement a similar safety system.
- 3.4.2 Implementing SMS requires that all personnel understand the safety philosophy and embrace a disciplined and standardized approach for SMS. Personnel need to know their roles and responsibilities with respect to dangerous goods and have the requisite competencies to perform their functions within the SMS. To ensure that personnel have the knowledge, skills and abilities to support SMS, training activities should follow the competency-based approach.

3.5 FUNCTION-SPECIFIC TRAINING

- 3.5.1 The Technical Instructions state that personnel must be trained commensurate with the functions for which they are responsible. These responsibilities are determined by the specific function's personnel perform and not by their job titles.
- 3.5.2 Concentrating on functions and responsibilities rather than a job title or description ensures that a person is competent to perform the function in compliance with the Technical Instructions.
- 3.5.3 For example, entities such as ground handling companies and freight forwarders may need personnel to perform some functions that are typically performed by shippers or operators. Ground handling and freight forwarder personnel would need to be trained to perform these functions competently regardless of their job title
- 3.5.4 In smaller operations, personnel may perform many functions such as accepting dangerous goods and loading

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and securing dangerous goods on board an aircraft. They would need to be trained to perform all of these functions competently. In larger operations, personnel may perform only a small number of functions. They would only need to be trained to perform those specific functions competently.

- 3.5.5 The depth of training each person receives should be appropriate to the functions performed. This could range from a familiarization level to an advanced level for certain personnel.
- 3.5.6 The employer must ensure that personnel are trained and found competent to perform any function for which they are responsible prior to performing any of these functions. This must be achieved through training and assessment commensurate with the functions for which they are responsible. Such training must be based on the competency-based training and assessment approach to dangerous goods training (CBTA) and must include:
 - a. General awareness/familiarization training Personnel must be trained to be familiar with the general provisions:
 - b. Function-specific training Personnel must be trained to perform competently any function for which they are responsible; and
 - c. Safety training Personnel must be trained on how to recognize the hazards presented by dangerous goods, on the safe handling of dangerous goods, and on emergency response procedures.
- 3.5.7 The employer must ensure that personnel who have received training but who are assigned to new responsibilities/functions must be assessed to determine their competence in respect of their new function. If competency is not demonstrated, appropriate additional training must be provided.

3.6 RECURRENT TRAINING AND ASSESSMENT

- 3.6.1 As detailed in Part 92.00.8 (4) personnel must receive recurrent training and assessment within 24 months of previous training and assessment to ensure that competency has been maintained.
- 3.6.2 However, if recurrent training and assessment is completed within the final three months of validity of the previous training and assessment, the period of validity extends from the month on which the recurrent training and assessment was completed until twenty-four (24) months from the expiry month of that previous training and assessment.

3.7 TRAINING AND ASSESSMENT RECORDS

- 3.7.1 The employer must maintain a record of training and assessment for personnel as stated in Part 92.00.8 (8) and in Part 141.01.17.
- 3.7.2 The record of training and assessment must include:
 - a. The individual's name:
 - b. The month of completion of the most recent training and assessment;
 - c. A description, copy or reference to training and assessment materials used to meet the training and assessment requirements;
 - d. The name and address of the organization providing the training and assessment; and
 - e. Evidence which shows that the personnel have been assessed as competent.
- 3.7.3 Training and assessment records must be retained by the employer for a minimum period of five years as stated in Part 141.01.17 (2).

3.8 APPROVAL OF TRAINING PROGRAMMES USING THE CBTA APPROACH

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- 3.8.1 The applicable Technical Instructions requires operators involved in the transport of Dangerous Goods to train their employees using the competency-based training and assessment approach prior the mandated date 31 December 2022.
- 3.8.2 Employers shall ensure that the Dangerous Goods training programs are approved by the SACAA in accordance with the civil Aviation Requirements SA-CAR92 and SA-CAR141
- 3.8.3 The Training programs may be contained in flight operations manuals and or training manuals for operators and in standalone dangerous goods procedures for all other entities.
- 3.8.4 An application for approval or amendment for dangerous goods training program in the FOM for the operators shall be submitted to dangerousgoodsoperations@caa.co.za but must include the operator's POI.
- 3.8.5 An application for all other entities shall be done through dangerous goods section on an appropriate application and sent on the email address: dangerousgoodsoperations@caa.co.za
- 3.8.6 Only training providers approved to train Dangerous Goods in terms of SA-CAR141 of the SACAA may be contracted to assist with the CBTA implementation.

3.9 APPLICATION FOR APPROVAL

- 3.9.1 An application to grant an approval for establishment of a Dangerous Goods Training Program must be made to the SACAA as per instructions above.
- 3.9.2 The application shall be accompanied by the Dangerous Goods Training Manual or equivalent and shall include, in addition to any other relevant information specified under Part 141, the following details:
 - a. Name of the training organization;
 - b. Functions of personnel to be trained as per the guiding templates.
 - c. Particulars of the class-room/virtual/CBT/Online facilities and training aids;
 - d. Description of the training materials to be used to meet the training requirements.
 - e. Names, qualifications and experience of the senior Instructor and other Instructors;
 - f. Maximum number of participants to be enrolled in a class;
 - g. Where third party services are to be used, such must be stated including the extent of involvement.

3.10 DOCUMENTATION EVALUATION

- 3.10.1 The application form shall be submitted with the supporting documents such as the training manual:
- 3.10.2 The Dangerous Goods Training Manual shall be in accordance with the requirement in Part 141 and as a minimum shall contain the following chapters, namely:
 - a. Introduction
 - b. Categories/Functions of personnel to be trained
 - c. Qualifications and experience of the instructors
 - d. Course Objective
 - e. Course Structure/Methodology
 - f. Course Contents

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- g. Course Schedule/Training plan
- h. Lesson Plans
- i. Summative and formative assessments
- j. Examination Papers
- k. Course Evaluation forms
- I. Specimen Certificate
- m. Maintenance of Training Records
- n. Instructor Qualification and maintenance
- 3.10.3 A system shall be developed to review and revise the Manual so as to incorporate the amendments, as and when issued, to the provisions of Annex 18 to the Chicago Convention, the Technical Instructions (Doc. 9284 AN/905), the Dangerous Goods Regulation CAR 92, and any other related document. A copy of the Manual so revised shall be submitted to the CAA immediately for concurrence/approval.

3.11 TRAINING MATERIAL

- 3.11.1 The training material shall contain as a minimum the following:
 - a. Trainee support material such as a:
 - i. learner manual
 - ii. exercises
 - iii. case studies
 - iv. videos
 - v. checklists (where required)
 - b. Assessment shall contain as a minimum the following:
 - i. Case studies;
 - ii. Simulations;
 - iii. Self-test;
 - iv. Quizzes; and
 - v. formal exams
- 3.11.2 The Delivery Method- Training material shall indicate the delivery methods chosen for various sections of training.
- 3.11.3 Example

TASK /MODULE	LEVEL OF PROFICIENCY	TYPE OF TRAINING DELIVERY METHOD	
Understanding the basics of dangerous goods	Introductory	E-learning	
Processing/accepting cargo	Intermediate	Classroom – instructor training	

3.12 COMPETENCY-BASED TRAINING AND ASSESSMENT

ROLES AND RESPONSIBILITIES IN A COMPETENCY-BASED APPROACH

- 3.12.1 The Employer (The Operators, the training organisations and other entities)
 - a. Develop a training program which includes elements such as design methodology, initial and recurrent training, assessment, instructor qualifications and competencies, training records and evaluation of its effectiveness.
 - b. Employers need to determine the purpose and objective of the competency-based training program

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based on the functions for which their personnel are responsible. Employers should ensure that training is designed and developed to establish clear links among the competencies to be achieved, the learning objectives, assessment methods, and course materials.

- c. The employer must study the target population (trainees) with a view to identifying the knowledge, skills and attitudes that they already possess, to collect information on preferred learning styles, and on the social and linguistic environments of prospective trainees. The target population may be a mixture of experienced and newly recruited personnel, groups differing in age, etc. All these components could have an impact on the design of the training.
- d. The employer shall submit the training program to SACAA for approval before commencing training.
- e. Some employers may utilize third parties for assistance. This approach may be the most suitable for employers who do not have the resources to train their personnel in house. While utilizing third parties may be cost effective, the deciding factor in selecting a third party should be whether or not the training needs are being addressed, and not costs alone. The potential for third parties to cater to the training needs of multiple employers and not address all required competencies of each specific employee needs to be taken into account. Employers remain responsible for ensuring their personnel are competent to perform their functions prior to performing them even if certain aspects of the training program have been delegated to third parties.
- f. Employers should liaise directly with the regulator to ensure that the fundamental requirements are considered prior to proceeding with the development of competency-based training,

3.12.2 Instructor

- a. In competency-based training, the instructor facilitates the trainee's progression towards the achievement of competencies. Instructors also support continuous improvement by collecting information about the effectiveness of the training materials.
- b. Only SACAA approved Dangerous Goods instructors can participate in the CBTA programs and assessment
- c. Instructor competencies are specified in Part 1, Chapter 3 of the PANS-TRG
- d. Instructors shall attend training on the advanced dangerous goods proficiency level
- e. Instructors shall have knowledge of the SA-CARS relating to dangerous goods
- f. Instructors shall at minimum have 3 years working knowledge and experience in dangerous goods, safety operations or experience in cargo operations, including performing the function they are training on
- g. Instructors shall undergo a practical activity in the operation at least every 2 to 3 years in the area they are

3.12.3 Training On.

Requirements to issue instructor certificate shall be as defined below.

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- a. Certification of new instructor shall consist of the following elements:
 - i. A written examination approved by the authority; and
 - A competency based practical assessment, i.e. presentation of training on the course of dangerous goods applied for.
- b. The written examination shall focus on the candidate's knowledge and understanding of Dangerous Goods regulations on the advanced proficiency level. The examination shall be taken at a SACAA approved examination centre.
- c. The competency based practical assessment shall evaluate both the instructional capability of candidates by requiring them to assume the role of instructor by delivering a full course of dangerous goods as per the course of Dangerous Goods and also evaluate the knowledge delivery. The practical evaluation shall be conducted at the candidates preferred venue. The following requirements shall be met before practical evaluation is conducted:
 - i. The certification shall be conducted by a SACAA Dangerous Goods Inspector (s).
 - ii. The candidate must have been evaluated internally on the subject to be certified on by an SACAA Dangerous Goods certified instructor.
 - iii. The evaluation shall be in accordance with the , "Observe, Interact and lead approach.
- d. **Observe**: the new instructor shall attend as the observer;
- e. **Interact**: the new instructor shall prepare a course or part of the course and co-facilitate with the certified instructor; and
- f. Lead: the new instructor shall deliver a full course under supervision of the certified instructor
- g. The evidence of the assessments such as checklists **and** feedback reports shall be kept and made available to the authority when required.
- h. The evaluation shall be based on the specific course dangerous goods that the instructor intends to present.
- i. The certification examination shall be conducted under the supervision of or on behalf of the DCA.
- j. The pass mark for written examination shall be 80 per cent.

3.12.4 Trainee

- a. In competency-based training, trainees are active participants in their learning process and in the achievement of competencies, as opposed to being passive recipients of knowledge. The competency-based training program provides them with a clear idea of their learning path towards competency through the training program and beyond. The competency-based training should directly contribute to improving their performance on the job. The trainees' feedback is essential to ensure that competency-based training is effective.
- b. Upon successful completion of the dangerous goods training, a person shall be able to perform the duties as laid out in the training program.

3.12.5 Regulator

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- a. There are important differences between the ways the regulator would oversee a traditional training programme versus a competency-based training program. In a traditional training program, the regulator may assess the course components and final test against knowledge elements and not on the competencies that need to be acquired.
- b. Where competency-based training has been implemented, SACAA should oversee the training program to ensure that it actually produces personnel who can perform the functions for which they are responsible in a specific operational setting and in compliance with the national regulatory framework. The Supplement to the Technical Instructions for the Safe Transport of Dangerous Goods by Air (SU to Doc 9284) provides guidance on overseeing dangerous goods training programs

3.12.6 Assessors

- The Assessors shall be appointed by the Employer to conduct OJT practicals or simulation assessments
- b. The role of the OJT assessors is to fully understand the competencies of various tasks under the function.
- c. They must conduct the assessments by observing the performance of the trainees, interviewing the trainees, coaching and mentoring where necessary after the trainees have completed the knowledge training and assessment.
- d. They must evaluate the effectiveness of the program and provide feedback to the employers for continuous improvement.
- e. The requirements and qualifications for assessors are defined below.
- f. Designated OJT Assessors shall be responsible for conducting the following duties:
 - i. conduct OJT and remedial training;
 - ii. sign off OJT;
 - iii. continuous Improvement training;
 - iv. conduct pre-certification assessments;
 - v. competency reports and analysis
 - vi. review OJT tools;
 - vii. train or instruct on new dangerous goods information, updated standard operation procedure and processes:
 - viii. link between operations and aviation training organisation; and
 - ix. perform direct supervision of the OJT.
- g. Qualifications of the designated OJT Assessors
 - i. 2-year operational experience;
 - ii. Dangerous Goods advanced proficiency level;
- instructional techniques;
- i. assessor or train the trainer; and
- j. coaching and mentoring

3.13 DEVELOPING COMPETENCY-BASED TRAINING FOR DANGEROUS GOODS

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3.13.1 ICAO framework and adapted competency model

- a. The purpose of competency-based training and assessment is to train and assess the capacity of an individual to perform at the standard expected in an organizational workplace. Therefore, organizations electing to implement competency-based training and assessment should adapt the corresponding generic ICAO competency framework for dangerous goods personnel Section 6 or IATA concept appendix H and ICAO DOC 10147 to suit their context by developing an adapted competency model. Employers and Training organizations must also reference the Employee groupings table in Section 7.
- b. The framework consists of competencies and their associated descriptions and observable behaviours and forms the basis from which an adapted competency model is derived. Employers implementing competency-based training and assessment should adapt this framework to reflect their specific requirements. An adapted competency model is an effective tool for defining successful job performance and provides a meansof assessing if trainees achieve the desired performance.
- c. The adapted competency model will include the final competency standards and conditions that need to be assessed in addition to the adapted competencies and their associated descriptions and observable behaviors.

ADDIE system

Phase 1		Phase 2	Phase 3	Phase 4	Phase 5
	ANALYSE training need	DESIGN local competency- based training	DEVELOP the training and assessment materials	IMPLEMENT. Conduct the course	EVALUATE the course

3.13.2 Relationship between competencies and tasks

- a. Competency-based training and assessment is based on the concept that competencies are transferable. In the design of a competency-based training and assessment program, a limited number of competencies are defined. Typically, an activity will involve several competencies, and competencies may apply across a variety of activities and contexts. In the design of training and assessments, tasks and activities are incorporated because they are good candidates for facilitating, developing or assessing a competency or competencies. Specific tasks may be used to develop specific competencies. The lack of specific competencies may be identified as a root cause of failure in the performance of a task.
- b. A generic list of tasks typically performed by Dangerous Goods personnel is provided in Section 6, Table 6-0. It consists of dangerous goods tasks and sub-tasks. A complementary flowchart is provided in the DOC 10147 and IATA DGR Appendix H. It illustrates the typical processes of performing these tasks. The employer shall adapt this task list to reflect the specific tasks performed by its personnel. The employer may also use Table 6-1 to Table 6-10 as a guide for what tasks are applicable for different functions of personnel
- 3.13.3 Development and implementation of competency-based training and assessmentprogrammes
 - **a.** Phase 1 Training needs analysis

The first phase in the development and implementation of a competency-based training program specific to an employer's environment and requirements is to conduct a training needs analysis. An employer conducts a training needs analysis to determine the results that the training needs to achieve and what

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resources exist to achieve these results. This critical step will ensure that the training fits the employer's purpose and is effective. The Training needs analysis must include the following:

- i. Identify the types of personnel the employer has in his employ and their job functions.
- ii. Identify the purpose of training.
- iii. Define the job functions related to dangerous goods, establish the task (s) with competency factors associated with the job functions.
- iv. Ensure that operational, technical, regulatory and organizational requirements are included in the training programme.
- 3.13.4 Once Job functions are defined, a task list must be developed corresponding to each job function and this becomes the foundation of what the employee will be trained on. A generic list of Tasks is given below.

Tasks

- a. understanding the basics of dangerous goods;
- b. classifying dangerous goods;
- c. preparing a dangerous goods shipment;
- d. processing/accepting cargo;
- e. managing cargo pre-loading;
- f. accepting passenger and crew baggage;
- g. transporting cargo/baggage; and
- h. collecting safety data.
- 3.13.5 **Sub-tasks**: are actions to be performed by the employee when completing the task and these are already defined. See Table 6-0 and or other guidance tables provided.
- 3.13.6 **Competency factors:** the three core competency factors knowledge, skills and attitude must be established together with the level of proficiency required for each task. Other competencies may include communication, leadership, teamwork, problem solving and decision making.
- 3.13.7 Phase 1 output is a training specification, which contains a list of tasks that each identified function will be trained on, the specific operational, technical, regulatory, organizational and other necessary requirements such as language to be used.

Phase 1 workflow is included below for your reference.

Phase 1

Analyse training need **INPUT PROCESS** OUTPUT Training Training request Identify the purpose of the training required specification Identify the tasks associated with the Task list purpose of the training Operational documents Identify the operational requirements Technical documents Identify the technical requirements Regulatory documents Identify the regulatory requirements Organizational documents Identify the organizational requirements Identify any other requirements

3.13.8 Phase 2 — Design competency-based training and assessment

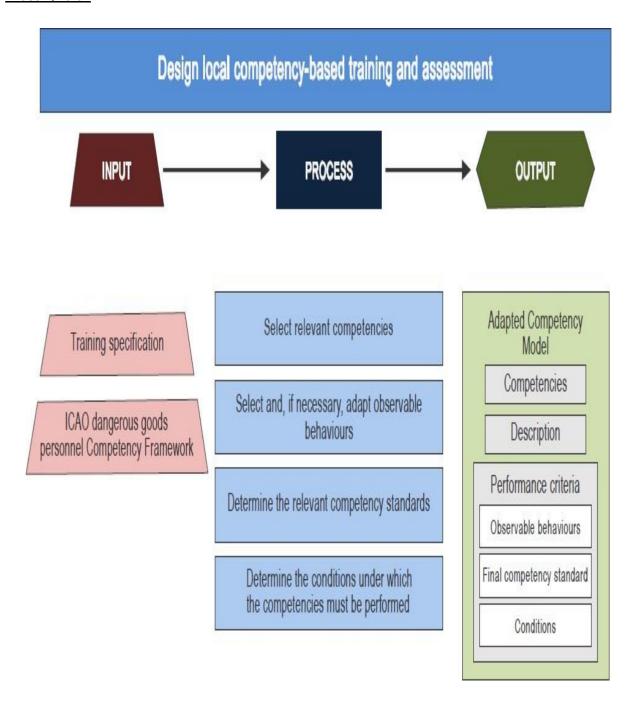
Designing competency-based training and assessment is the second phase in the development and implementation of a competency-based training and assessment programme. This is achieved by utilizing the training specifications identified in Phase 1 and will include:

- a. Designing an adapted competency model based on the training specification identified in Phase1;
- b. Designing an assessment plan that will be used to assess the competence of trainees; and
- c. Designing a training plan that will enable the development and delivery of the training course.

3.13.9 Designing the adapted competency model

- a. The competency model for dangerous goods should be adapted from the generic competency framework provided in this document. This generic framework provides a set of competencies that are typically needed to perform the dangerous goods tasks identified in the task list provided in this document.
- b. The vast majority of adapted competency models will contain similar lists of competencies, but there may be a need to add or remove a competency depending on the employers own operational and organizational environments.
- c. The generic framework also provides a comprehensive list of observable behaviors associated with each of the competencies.

Phase 2, Part 1



3.13.10 Designing an assessment plan

- 1) The purpose of the assessment plan is to detail how competence is going to be determined. The assessment plan details:
- a. the final competency standard associated with the final milestone;
- b. the interim competency standard associated with each milestone (if required);
- c. the list of assessments (formative and summative assessments, examinations, oral assessments, etc.) required for each of the milestone(s) that have been defined;
- d. when assessments should take place;
- e. the tools to be used to collect evidence during practical assessment;
- f. the pass marks for projects, examinations or oral assessments;
- g. if required, the minimum number of formative assessments to be undertaken prior to starting summative assessments; and
- h. the number of observations required to assess performance for the interim and final competency standards.
- 2) Additional administrative procedures may be necessary in the implementation of the assessment plan in relation to:
- a. who is authorized to perform a specific task or assessment,
- b. roles and responsibilities of personnel during conduct of assessments;
- c. assessment procedures (preparation, conduct and post-assessment);
- d. record-keeping,
- e. actions to be taken if a trainee fails a competency assessment, etc. those procedures shall be documented in the training manual subject to review and approval by the CAA.
- 3.13.11 Competency-based training requires assessment of the trainees' progress until they are competent to perform their assigned function. A trainee's assessment may be completed using a variety of tools including observation of job performance, tests or other practical exercises.
- 3.13.12 In order for assessment tools to be effective, they must be valid and reliable both in terms of being an appropriate measure of the competency being assessed and of obtaining consistent results when administered by different assessors.
- 3.13.13 The assessment of personnel can be accomplished in a variety of ways. Some common examples to accomplish an assessment would be to utilize a written test, online test, oral test, observed practical exercises, online practical exercises and observation of on-the-job performance by fully trained personnel, i.e. designated OJT assessor. An employer might choose to utilize one assessment method or a combination of assessment methods, as long as the assessment confirms that the personnel have acquired the necessary competencies to perform the assigned functions.
- 3.13.14 The employer therefore establishes the assessment plan with all the specific details that would need to be accomplished to determine whether competence has been achieved by the trainee.
- 3.13.15 Employers electing to send personnel to third-party training providers also need to establish an assessment plan for ensuring that competence has been achieved by the trainee. The employer may incorporate the third-party provider's assessment into its established assessment plan.
- 3.13.16 Even if the employer does not deliver any of the training itself, it can still choose to assess the trainees in the workplace to ensure they can perform their assigned tasks competently and incorporate that process into the assessment plan.

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3.13.17 **Designing a training plan**

- 1) The training plan is to detail:
 - a. the composition and structure of the course;
 - b. the syllabus;
 - c. milestones (if required) see figure below;
 - d. modules, training events and their delivery sequence; and
 - e. the course schedule.

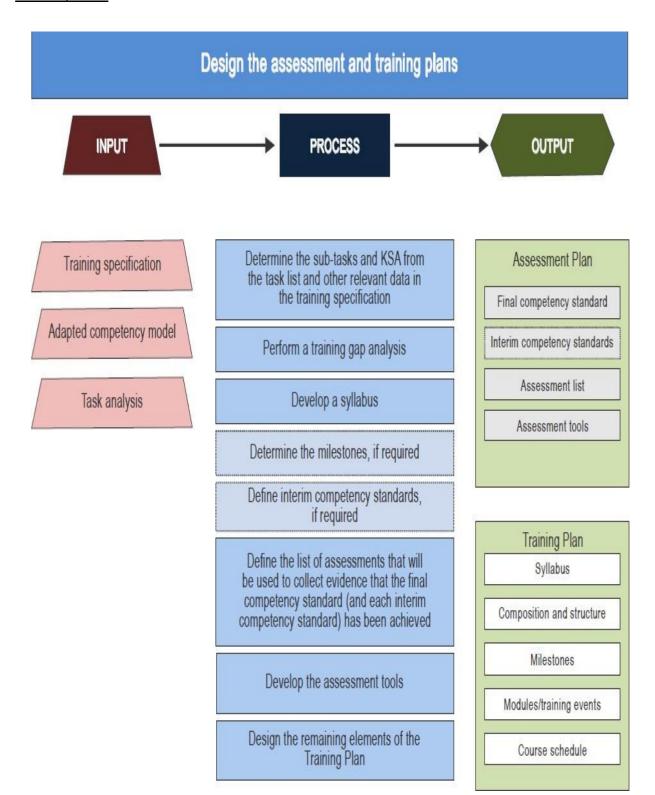
3.13.18 Training delivery method

- 1) The training delivery method must be defined and the common types include:
- a. physical classroom;
- b. virtual classroom;
- c. e-learning; and
- d. simulation;
- e. On the job training.

3.13.19 Additional requirements for on-the-job training assessment

- a. Initial training prescribed in CAR 92.00.8 shall be carried out before a candidate is allowed to undertake "on the Job training".
- b. OJT is required upon successful completion of initial and or refresher training.
- c. The OJT record shall be signed by both the supervisor and trainee.
- d. On successful completion of dangerous goods training, the trainee shall be required to complete an OJT commensurate with their responsibilities under direct supervision
- e. The minimum period for OJT practicals assessments shall be defined in the Training programme
- 3.13.20 The training plan will be used by the training designer(s) to create the training and assessment materials.

Phase 2, Part 2



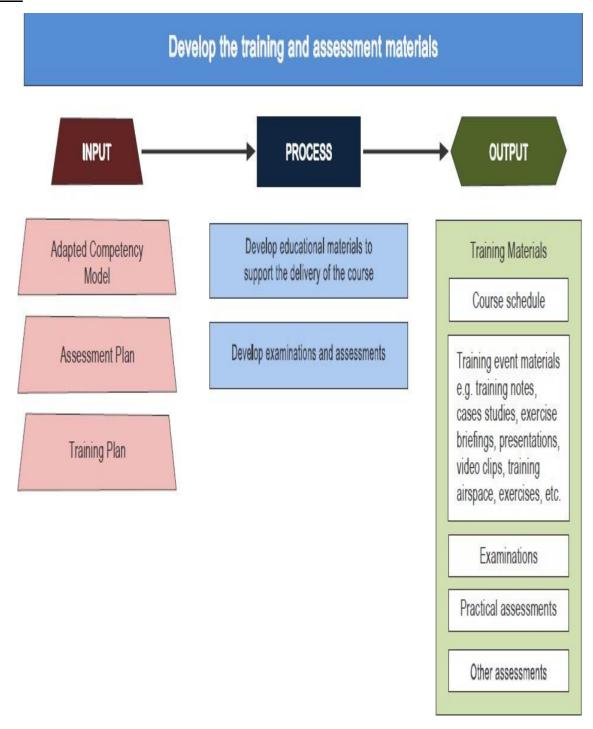
3.13.21 Relationship between the adapted competency model and the assessment and training plans

- a. The training specification developed in Phase 1 serves as the common basis for the development of the adapted competency model and the training and assessment plans. The task list is generally used to aid the selection of the observable behaviours from the generic competency framework provided in this document. The operational, technical, regulatory and organizational requirements aid the development of the conditions and standards that will apply to the competencies and observable behaviours.
- b. The same task list and requirements are used to develop the training plan. The training plan is used to prepare the trainees to undertake assessment to determine if they are competent in accordance with the adapted competency model. The adapted competency model and the training plan are used to develop the assessment plan.
- c. The syllabus in the training plan is composed of training objectives derived from tasks and sub-tasks as well as the underlying knowledge, skills and attitudes necessary to perform them. The knowledge, skills and attitudes are determined on the basis of the task list in conjunction with operational, technical, regulatory and organizational requirements.
- d. The employer should indicate what knowledge is needed for a particular task within the organization. The level of knowledge and/or skills necessary will differ depending on the task.
- e. When assessing whether competence has been achieved, the adapted competency model, not the syllabus, is referenced. Consequently, the performance criteria are used to assess if competence has been achieved, and the tasks/sub- tasks that are carried out by the trainee are utilized to conduct the assessment.

3.13.22 Phase 3 — Develop the training and assessment materials

- a. The third phase in the development and implementation of a competency-based training and assessment programme is the development of the training and assessment materials. Development is based on the adapted competency model and the training and assessment plans. Training and assessment materials include but are not limited to training notes, exercise briefings, practical exercises, case studies, presentations, video clips, selftest guizzes, examinations, assessments and assessment tools.
- b. For each specific job function the employer shall establish the training materials in accordance with the Job Function task lists chosen.
- c. Checklists to be used for OJ T assessments must also be developed at this phase

Phase 3

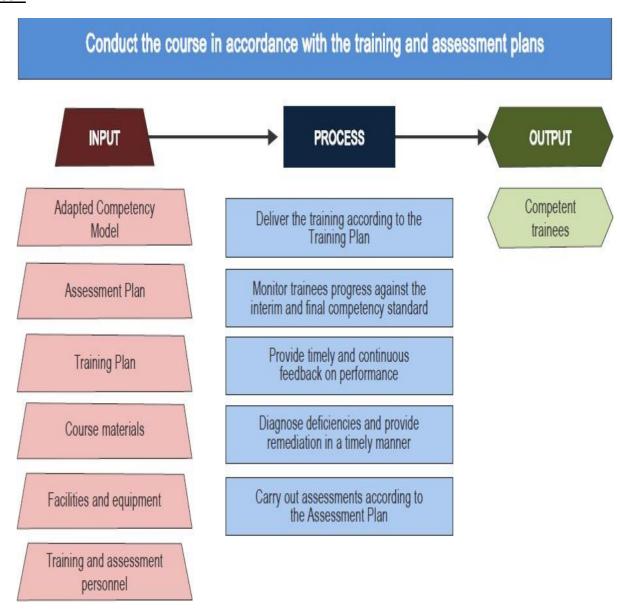


3.13.23 Conduct the course

a. Phase 4 — Conduct the course in accordance with the training and assessment plans

The fourth phase in the development and implementation of a competency-based training and assessment programme is conducting the course in accordance with the training and assessment plans. This involves delivering the training; monitoring the progress of the trainees; providing timely and continuous feedback on their performance; diagnosing deficiencies in the training and addressing them in a timely manner; and carrying out assessments according to the assessment plan. The goal ofthis phase is a competent employee.

Phase 4



- 3.13.24 The approval of the competency-based training approach is subject to inspection and approval by the CAA inspectors to verify:
 - a. The full documentation of the first 3 Phases submitted and approved- this includes amended Training Programmes and Training Material.
 - b. The implementation of Phase 4 in line with the approved programme.
 - the compliance and the implementation of tools elaborated, submitted and approved during Phases 1, 2 and 3;

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- d. The assessment of the qualification and skills of the instructor when conducting the training using the CBTA approach
- 3.13.25 The audit will follow the normal SACAA audit process which involves issuance of findings where there are non-compliances. A corrective action plan must be submitted which clearly states how the deficiencies will rectified and they will be prevented from happening again.

3.14 APPROVAL LETTER/CERTIFICATE

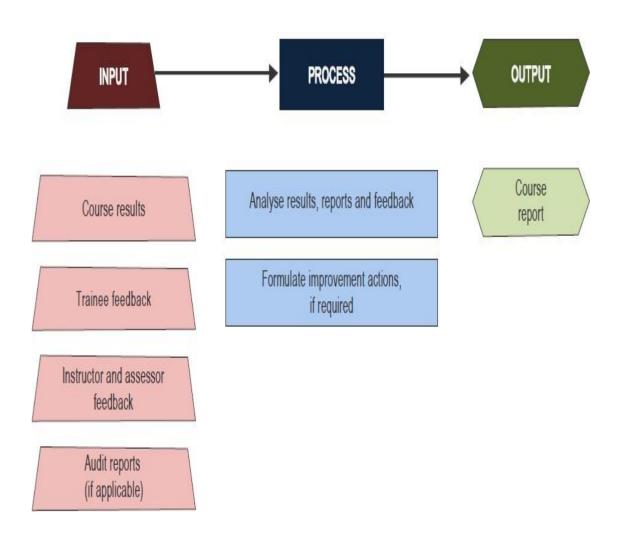
3.14.1 Following the initial audit of the training programs using the CBTA Approach, SACAA will grant an approval if the training programs meet the requirements. The certificate will be amended to specify the CBTA approval in accordance with the documentation submitted (function granted, validity, transition period.)

3.14.2 PHASE 5 — EVALUATE THE COURSE INCLUDING THE TRAINING AND ASSESSMENTPLANS

The employer is responsible for ensuring the effectiveness of the training programme. At the end of a period of training, feedback on performance on the job from trainees, instructors, assessors and employers should be gathered to determine the effectiveness of the training and assessment in supporting the progression of learning towards competence in the workplace. Evaluation of the training should be based on valid and reliable evidence such as course results, trainee feedback, instructor feedback, audit reports, and occurrence reports. This evaluation may lead to changes or improvements being made to the competency-based training and assessment design.

Phase 5

Evaluate the course including the training and assessment plans



3.14.3 The monitoring of the CBTA approval by the SACAA may include the following:

- a. Evaluation of the phase 5 submitted to the SACAA
- b. Evaluation of the occurrence, previous reports, interviews of the staff, meetings;
- c. Internal/external audits reports;
- d. An evaluation and assessment of the training programs performed by other training provider approved to use the CBTA approach;
- e. Assessment of the implementation for the approved course evaluation procedure;

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3.15 GENERIC DANGEROUS GOODS TASK LIST

This chapter contains a generic list of tasks typically performed by dangerous goods personnel. The employershould adapt this task list to reflect the specific tasks performed by its personnel.

			Table 3-0. Generic Dangerous Goods Task List	
			Dangerous Goods Task List Template	
0	Undore	standing th	he basics of dangerous goods	
U	0.1			
	0.1	0.1.1	nizing dangerous goods applicability Understand the definition	
		0.1.2	Recognize the legal framework(global, national)	
		0.1.3	Identify the application and scope	
		0.1.4	Differentiate hazard and risk	
	0.2	Unders	standing the general limitations	
		0.2.1	Develop a sense of forbiddendangerous goods	
		0.2.2	Recognize potential hiddendangerous goods	
		0.2.3	Familiarise with passenger pro-visions	
	0.3	Identify	ring roles and responsibilities	
		0.3.1	Clarify the individual and collectiverole of the supply chain stake- holders	
		0.3.2	Understand the passenger's re-sponsibilities	
		0.3.3	Recognise the impact of State & operator variations	
	0.4	Unders	standing the importance of classification& packaging	
		0.4.1	Identify the general informationabout classes, divisions	
		0.4.2	Understand general principles of Packing Groups	
		0.4.3	Consider multiple hazards	
	0.5	Unders	standing hazard communication	
		0.5.1	Recognise the basic marking re-quirements	
		0.5.2	Recognise the basic labelling re-quirements	
		0.5.3	Identify the required documentation	
	0.6	Familia	arising with basic emergency response	
		0.6.1	Create awareness about generalemergency procedures	
		0.6.2	Understand the employer's emerg-ency response requirements	
1	Classif	fying dang	erous goods	
	1.1		te a substance or an article against theclassification criteria	
		1.1.1	Determine if it is dangerous goods	
		1.1.2	Determine if it is forbidden underany circumstances	
	1.2	Determ	nine dangerous goods description	
		1.2.1	Determine class or division	
		1.2.2	Determine packing group	
		1.2.3	Determine proper shipping name and UN number	
		1.2.4	Determine if it is forbidden unless approval or exemption is granted	
	1.3	Review	v special provisions	

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	1.3.1	Assess if special pro	vision(s) isapplicable		
	1.3.2	Apply special provisi	on(s)		
Pre	eparing dange	rous goods shipment			
2.1	Assess packing options including quantitylimitations				
	2.1.1		(de minimis quantities, excepted quantities, I t only, special pro- visions, dangerous goods in the		
	2.1.2	Consider State and o	pperator vari-ations		
	2.1.3	Determine if all-pack	ed-in-one canbe used		
	2.1.4		is goods will be shipped based on limitations and	variations	
2.2		packing requirements			
	2.2.1	Consider constraints	of packing in-structions		
	2.2.2	identify and follow th packaging is used	e instructionsprovided by the packaging manu-fa	acturer when UN specification	
	2.2.3	Select appropriate pa	ackaging ma- terials (absorbent, cushioning, etc.)		
	2.2.4	Assemble package			
2.3	Apply r	narks and labels			
	2.3.1	Determine applicable	marks		
	2.3.2	Apply marks			
	2.3.3	Determine applicable	alabels		
	2.3.4	Apply labels			
2.4		use of overpack			
	2.4.1	Determine if overpace			
	2.4.2	Apply marks if neces	-		
0.5	2.4.3	Apply labels if neces	sary		
2.5		e documentation	de Destaurtes		
	2.5.1 2.5.2	Complete the Shippe			
		·	sport docu-ments (e.g. air waybill)		
	2.5.3	•	d documen- tation (approvals/exemptions, etc.)		
	2.5.4	Retain copies of doc	uments		
	cessing/acce				
3.1	3.1.1	v documentation Verify Shipper's Decl	aration		
	3.1.2		t documents(e.g. air waybill)		
	3.1.3	Verify other document	nts (exemp-tions, approvals, etc.)		
	3.1.4	Verify State/operator	variations		
3.2	Review	package(s)			
	3.2.1	Verify marks			
	3.2.2	Verify labels			
	3.2.3	Verify packaging type			
	3.2.4	Verify package cond			
	3.2.5	Verify State/operator			
3.3		ete acceptance procedu			
	3.3.1	Complete acceptanc			
	3.3.2	Provide shipment inf	ormation forload planning		
	3.3.3	Retain documents			
3.4	Proces	s/accept cargo other th	an dangerousgoods		
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		3.4.1	Check documentation for indi-cations of hidden/undeclared dangerous goods				
		3.4.2	Check packages for indications of hidden/undeclared dangerous goods				
4	Managing cargo pre-loading						
	4.1	Plan loa	ading				
		4.1.1	Determine stowage requirements				
		4.1.2	Determine segregation, separation, compartment limitations				
	4.2	Prepare	e load for aircraft				
		4.2.1	Check packages for indications of hidden/undeclared dangerous goods				
		4.2.2	Check for damage and/or leakage				
		4.2.3	Apply stowage requirements (i.e. segregation, separation, orien- tation, securing and protecting from damage)				
		4.2.4	Apply ULD tags when applicable				
		4.2.5	Transport cargo to aircraft				
	4.3	Issue N					
		4.3.1	Enter required information				
		4.3.2	Verify conformance with load plan				
		4.3.3	Transmit to loading personnel				
5	Accept	ing passer	nger and crew baggage				
	5.1		s baggage				
		5.1.1	Identify forbidden dangerous goods				
		5.1.2	Apply approval requirements				
	5.2		baggage				
		5.2.1	Apply operator requirements				
		5.2.2	Verify passenger baggage require-ments				
		5.2.3	Advise pilot-in-command, when applicable				
6	Transp	insporting cargo/baggage					
	6.1	Load ai	rcraft				
		6.1.1	Transport cargo/baggage to aircraft				
		6.1.2	Check packages for indications of hidden/undeclared dangerous goods				
		6.1.3	Check for damage and/or leakage				
		6.1.4	Apply stowage requirements (i.e. segregation, separation, orien- tation, securing and protecting from damage)				
		6.1.5	Verify aircraft load against NOTOC				
		6.1.6	Provide NOTOC information to pilot-in-command and flight oper-ations officer/flight dispatcher				
		0.1.0	1 Tovide NOTOC Illiottiation to pilot-in-confinant and hight oper-ations officer/hight dispatcher				
	6.2	Manage	e dangerous goods pre and duringflight				
		6.2.1	Address dangerous goods not per-mitted in baggage				
		6.2.2	Interpret NOTOC				
		6.2.3	Apply procedures in the event ofan emergency				
		6.2.4	Inform flight operations officer/flightdispatcher/air traffic control in the event of an emergency				
		6.2.5	Inform emergency services of thedangerous goods on the NOTOCin the event of an emergency				
	6.3	Unload	aircraft				
	3.3	6.3.1	Apply specific unloading consider-ations				
		1.0.1	ELA -La sura annual annual annual				

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		6.3.2	Check packages for indications ofhidden/undeclared dangerous goods			
		6.3.3	Check for damage and/or leakage			
		6.3.4	Transport cargo/baggage tofacility/terminal			
7	Collecting safety data					
	7.1	Report	leport dangerous goods accidents			
	7.2	Report dangerous goods incidents				
	7.3	Report	Report undeclared/mis-declared dangerous goods			
	7.4	Report	dangerous goods occurrences			

TABLE 3.1 Personnel Responsible for Preparing Dangerous Goods Consignments

		oreparing dange provided simult	rous goods consignments for transport (Personnelclassifying dangerous ianeously)	Classifying dangerous goods	Preparing dangerous goods shipment
0	Understan	nding the basics o	f dangerous goods		0
	0.1	Dangerous	goods applicability	0	0
		0.1.1	Understand the definition	0	0
		0.1.2	Recognise the legal framework (global, national)	0	0
		0.1.3	0.1.3 Identify the application scope		0
		0.1.4 Differentiate hazard and risk		0	0
	0.2	Understand	ing the general limitations	0	0
		0.2.1 Develop a sense of forbidden dangerous goods		0	0
		0.2.2 Recognise potential hidden dangerous goods		0	0
		0.2.3	Familiarise with passenger provisions		0
	0.3	Identifying roles and responsibilities		0	0
		0.3.1	Clarify the individual and collective role of the supply chainstakeholders	0	0
		0.3.3	Recognise the impact of State & operator variations	0]
	0.4	Understanding the importance of classification and packaging		0]
		0.4.1	Identify the general information about classes, divisions	0	0
		0.4.2	Understand general principles of packing groups		0
		0.4.3	Consider multiple hazards]
	0.5	Understand	ing hazard communication]
		0.5.1	Recognise the basic marking requirements	0	0
		0.5.2	Recognise the basic labelling and requirements	0	0
		0.5.3 Identify the required documentation		0	0
		preparing dange provided simul	rous goods consignments for transport (Personnelclassifying dangerous taneously)	Classifying dangerous goods	Preparing dangerous goods shipment
	0.6	Familiarisin	g with basic emergency response		0
		0.6.1	Create awareness about general emergency procedures	0	0
				0	0
		0.6.2	Understand the employer's emergency response require-ments	0	0
	Classifying	g dangerous good	ds	Ш	Ш
	1.1	Evaluate a s	substance or an article against the classification criteria	Ш	II
		1.1.1	Determine if it is dangerous goods	Ш	Ш
		1.1.2	Determine if it is forbidden under any circumstances	Ш	Ш
	1.2	Determine o	langerous goods description	Ш	Ш
		1.2.1	Determine class or division	Ш	Ш
		1.2.2	Determine packing group	Ш	Ш
					

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		1.2.4	Determine if it is forbidden unless approval or exemption isgranted	Ш	
	1.3	Poviow one	cial provisions		
	1.3	1.3.1 Assess if special provision(s) is applicable			
			1 1 17 11		
^		1.3.2	Apply special provision(s)		
2	<u> </u>	dangerous good	•		
	2.1		king options including quantity limitations		
		2.1.1	Consider limitations (de minimis quantities, excepted quan-tities, limited quantities, passenger aircraft, cargo aircraft only, special provisions, dangerous goods in the mail)		Ш
		2.1.2	Consider State and operator variations		
		2.1.3	Determine if all-packed-in-one can be used		Ш
		2.1.4	Select how dangerous goods will be shipped based on limitations and variations		ш
	2.2	Apply packi	ing requirements		
		2.2.1	Consider constraints of packing instructions		
		2.2.2	Identify and follow the instructions provided by the packag- ing manufacturer when UN specification packaging is used		Ш
		2.2.3	Select appropriate packaging materials (absorbent, cushioning, etc.)		Ш
		2.2.4	Assemble package		
	2.3	Apply mark	s and labels		
		2.3.1	Determine applicable marks		
		2.3.2	Apply marks		Ш
		2.3.3	Determine applicable labels		Ш
		2.3.4	Apply labels		Ш
	2.4	Assess use	of overpack		Ш
		2.4.1	Determine if overpack can be used		Ш
		2.4.2	Apply marks if necessary		Ш
		2.4.3	Apply labels if necessary		
	2.5	Prepare do	cumentation		
		2.5.1	Complete the Shipper's Declaration		Ш
		2.5.2	Complete other transport documents (e.g. air waybill)		
		2.5.3	Include other required documentation (approvals/exemptions, etc.)		ш
		2.5.4	Retain copies of documents		

TABLE 3.2

Personnel Responsible for Processing or Accepting Goods Presented as General Cargo

Function: P			cepting goods presented as general cargo	Processing/accepting cargo
0	Dangerous god	ods applicability		0
	0.1	Recognizing	g dangerous goods	
		0.1.1	Understand the definition	
		0.1.2	Recognise the legal framework (global, national)	
		0.1.3	Identify the application and scope	0
		0.1.4	Differentiate hazard and risk	Ī
	0.2	Understand	ing the general limitations	Ī
		0.2.1	Develop a sense of forbidden dangerous goods	0
		0.2.2	Recognise potential hidden dangerous goods	0
		0.2.3	Familiarise with passenger provisions	
	0.3	Identifying of	different roles and responsibilities	0
		0.3.1	Clarify the individual and collective role of the supply chain stake-holders	0
		0.3.2	Recognise the impact of State & operator variations	0
	0.4	Understand	ing the importance of classification & packaging	0
		0.4.1	Identify the general information about classes, divisions	
		0.4.2	Understand general principles of packing groups	
		0.4.3	Consider multiple hazards	
	0.5	Understand	ing hazard communication	
		0.5.1	Recognise the basic marking requirements	
		0.5.2	Recognise the basic labelling requirements	
		0.5.3	Identify the required documentation	
	0.6	Familiarisin	g with emergency response	<u>[</u>
		0.6.1	Create awareness about general emergency procedures	
		0.6.2	Understand the employer's emergency response requirements	
3	Processing/acc	cepting cargo		
	3.4	Process/acc	cept cargo other than dangerous goods	
		3.4.1	Check documentation for indications of hidden/undeclared dangerousgoods	Ш
		3.4.2	Check packages for indications of hidden/undeclared dangerousgoods	ш
7	Collecting safe	ety data		
	7.1	Report dang	gerous goods accidents	
	7.2	Report dang	gerous goods incidents	
	7.3	Report unde	eclared/mis-declared dangerous goods	
	7.4	Report dans	gerous goods occurrences	

TABLE 3.3

Personnel Responsible for Processing or Accepting Dangerous GoodsConsignments

Function: Pe	ersonnel responsible fo	Processing/accepting cargo		
0	Understanding	g the basics of dange	erous goods	0
	0.1	Dangerous	goods applicability	0
		0.1.1	Understand the definition	0
		0.1.2	Recognize the legal framework (global, national)	0
		0.1.3	Identify the application and scope	0
		0.1.4	Differentiate between hazard and risk	0
	0.2	Understand	ding the general limitations	0
		0.2.1	Develop a sense of forbidden dangerous goods	0

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	İ	0.2.2	Recognise potential hidden dangerous goods	
		0.2.3	Familiarised with passenger provisions	П
	0.3		ent roles and responsibilities	П
	0.0	0.3.1	Clarify the individual and collective role of the supply chain stake-holders	
		0.0.1	orany are marvious and conceave role of the supply chain stake houses	
		0.3.2	Recognise the impact of State & operator variations	
	0.4	Understanding th	ne importance of classification & packaging	0
		0.4.1	Identify the general information about classes, divisions	
		0.4.2	Understand general principles of packing groups	0
		0.4.3	Consider multiple hazards	
	0.5	Understanding h	azard communication	
		0.5.1	Recognise the basic marking requirements	0
		0.5.2	Recognize the basic labelling requirements	0
		0.5.3	Identify the required documentation	
	0.6	Familiarising with	n basic emergency response	0
		0.6.1	Create awareness about general emergency procedures	0
		0.6.2	Understand the employer's emergency response requirements	0
Function: Personne	el responsible for prod	essing or acception	ng dangerous goods consignments	Processing/accepting cargo
3	Processing/accepting	g cargo		
	3.1	Review document	ation	
	3.1	Review document	Verify Shipper's Declaration	
	3.1		T	
	3.1	3.1.1	Verify Shipper's Declaration	
	3.1	3.1.1 3.1.2	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill)	
	3.1	3.1.1 3.1.2 3.1.3	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations	
		3.1.1 3.1.2 3.1.3 3.1.4	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations	
		3.1.1 3.1.2 3.1.3 3.1.4 Review package(s	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations s)	
		3.1.1 3.1.2 3.1.3 3.1.4 Review package(s	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations S) Verify marks	
		3.1.1 3.1.2 3.1.3 3.1.4 Review package(3.2.1 3.2.2	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations s) Verify marks Verify labels	
		3.1.1 3.1.2 3.1.3 3.1.4 Review package(3.2.1 3.2.2 3.2.3	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations S) Verify marks Verify labels Verify packaging type	
		3.1.1 3.1.2 3.1.3 3.1.4 Review package(s 3.2.1 3.2.2 3.2.3 3.2.4	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations S) Verify marks Verify labels Verify packaging type Verify package conditions Verify State/operator variations	
	3.2	3.1.1 3.1.2 3.1.3 3.1.4 Review package(3.2.1 3.2.2 3.2.3 3.2.4 3.2.5	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations S) Verify marks Verify labels Verify packaging type Verify package conditions Verify State/operator variations	
	3.2	3.1.1 3.1.2 3.1.3 3.1.4 Review package(3.2.1 3.2.2 3.2.3 3.2.4 3.2.5 Complete accepta	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations s) Verify marks Verify labels Verify packaging type Verify package conditions Verify State/operator variations ance procedures	
	3.2	3.1.1 3.1.2 3.1.3 3.1.4 Review package(s 3.2.1 3.2.2 3.2.3 3.2.4 3.2.5 Complete accepta 3.3.1	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations S Verify marks Verify labels Verify packaging type Verify package conditions Verify State/operator variations unce procedures Complete acceptance checklist	
7	3.2	3.1.1 3.1.2 3.1.3 3.1.4 Review package(3.2.1 3.2.2 3.2.3 3.2.4 3.2.5 Complete accepta 3.3.1 3.3.2 3.3.3	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations s) Verify marks Verify labels Verify packaging type Verify package conditions Verify State/operator variations unce procedures Complete acceptance checklist Provide shipment information for load planning	
7	3.2	3.1.1 3.1.2 3.1.3 3.1.4 Review package(3.2.1 3.2.2 3.2.3 3.2.4 3.2.5 Complete accepta 3.3.1 3.3.2 3.3.3	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations Silverify marks Verify labels Verify packaging type Verify package conditions Verify State/operator variations Ince procedures Complete acceptance checklist Provide shipment information for load planning Retain documents as required	
7	3.2 3.3 Collecting safety date	3.1.1 3.1.2 3.1.3 3.1.4 Review package(s) 3.2.1 3.2.2 3.2.3 3.2.4 3.2.5 Complete accepta 3.3.1 3.3.2 3.3.3	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations S) Verify marks Verify labels Verify packaging type Verify package conditions Verify State/operator variations ance procedures Complete acceptance checklist Provide shipment information for load planning Retain documents as required	
7	3.2 3.3 Collecting safety data 7.1	3.1.1 3.1.2 3.1.3 3.1.4 Review package(3.2.1 3.2.2 3.2.3 3.2.4 3.2.5 Complete accepta 3.3.1 3.3.2 3.3.3 Report dangerous	Verify Shipper's Declaration Verify other transport documents (e.g. air waybill) Verify other documents (exemptions, approvals, etc.) Verify State/operator variations S) Verify marks Verify labels Verify packaging type Verify package conditions Verify State/operator variations ance procedures Complete acceptance checklist Provide shipment information for load planning Retain documents as required	

TABLE 3.4

Personnel Responsible for Handling in a Warehouse, Loading and Unloading Unit Load Devices and Loading and Unloading Aircraft Cargo Compartments

Function: Personne compartments.	Managing cargo pre-loading			
0 Understanding the basics of dangerous goods				0
	0.1	Dangerous goods applic	0	
		0.1.1	0	
		0.1.2	Recognize the legal framework (global, national)	0

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		0.1.3		Identify the application and scope	
		0.1.4		Differentiate hazard and risk	<u> </u>
	0.2	Understanding	the gene		
		0.2.1		Develop a sense of hidden dangerous goods	0
		0.2.2		Recognise potential hidden dangerous goods	0
		0.2.3		Familiarise with passenger provisions	0
	0.3	Identifying role	es and res	sponsibilities	0
		0.3.1		Clarify the individual and collective role of the supply chain stake-holders	0
		0.3.2		Recognise the impact of State & operator variations	0
Function: Personn compartments.	el responsible for hand	dling cargo in a	warehous	se, loading and unloading ULD and loading and unloading aircraft cargo	Managing cargo pre-loading
-	0.4	Understanding t	he import	ance of classification & packaging	0
		0.4.1	Identify t	the general information about classes, divisions	0
		0.4.2	Understa	and general principles of packing groups	0
		0.4.3	Conside	r multiple hazards	0
	0.5	Understanding I	nazard cor	mmunication	0
		0.5.1	Recogni	se the basic marking requirements	0
		0.5.2	Recogni	se the basic labelling requirements	0
	0.6	Familiarising with	th basic er	mergency response	0
		0.6.1	Create a	awareness about general emergency procedures	0
		0.6.3	Under th	ne employer's emergency response requirements	0
4	Managing cargo pre-l	oading			
	4.1	Plan the load			
		4.1.1	Determin	ne stowage requirements	
		4.1.2	Determin	ne segregation, separation, cargo compartment limitations	
	4.2	Prepare load for	aircraft		
		4.2.1	Check p	ackages for indications of hidden/undeclared dangerousgoods	<u> </u>
		4.2.2	Check fo	or damage and/or leakage	
		4.2.3		lowage requirements (i.e. segregation, separation, orientation, securing and ag from damage)	Ш
		4.2.4	Apply UI	LD tags when applicable	Ш
6	Transporting cargo/ba	aggage			
	6.1	Load aircraft			
		6.1.1	Transpo	rt cargo/baggage to aircraft	
		6.1.2	Check p	ackages for indications of hidden/undeclared dangerousgoods	
		6.1.3	Check fo	or damage and/or leakage	
		6.1.4		towage requirements (i.e. segregation, separation, orientation, securing and ag from damage)	
		6.1.5	Verify air	rcraft load against NOTOC	
	6.3	Unload aircraft			
		6.3.1	Apply sp	pecific unloading considerations	
		6.3.2	Check p	ackages for indications of hidden/undeclared dangerousgoods	
		6.3.3	Check fo	or damage and/or leakage	
		6.3.4	Transpo facility/te		Ш
7	Collecting safety data	<u>1</u> 	. , ,		
	7.1	Report dangero	us goods a	accidents	
	7.2	Report dangero			
	7.3			eclared dangerous goods	
	7.4	Report dangero	us goods	occurrences	
	7.2 7.3	Report dangero Report undeclar	us goods i ed/mis-de	incidents eclared dangerous goods	

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TABLE 3.5

Personnel Responsible for Accepting Passenger and Crew Baggage, Managing Aircraft Boarding Areas and other Functions Involving Direct Passenger Contact at an Airport

	ersonnei responsible rect passenger contact		senger and crew baggage, managing aircraft boarding areas and other function	s Accepting passenger and crew baggage
0	Understanding	the basics of dange	erous goods	0
	0.1	Dangerous	goods applicability	
		0.1.1	Understand the definition	
		0.1.2	Recognise the legal framework (global, national)	
		0.1.3	Identify the application and scope	
		0.1.4	Differentiate hazard and risk	
	0.2	Understand	ling the general limitations	0
		0.2.1	Develop a sense of hidden dangerous goods	
		0.2.2	Recognise potential hidden dangerous goods	0
		0.2.3	Familiarise with passenger provisions	0
	0.3	Identifying i	roles and responsibilities	0
		0.3.1	Clarify the individual and collective role of the supply chain stake-holders	0
		0.3.2	Understand the passengers responsibilities	0
		0.3.3	Recognise the impact of State & operator variations	0
	0.4	Understand	ling the criticality of classification & packaging	0
		0.4.1	Identify the general information about classes, divisions	0
	0.5	Understand	ling hazard communication	0
		0.5.1	Recognise basic marking requirements	0
		0.5.2	Recognise basic labelling requirements	0
		0.5.3	Identify the required documentation	0
	0.6	Familiarisin	g with basic emergency response	0
		0.6.1	Create awareness about general emergency procedures	0
		0.6.2	Understand the employer's emergency response requirements	0
i	Accepting pas	senger and crew ba	ggage	Ш
	5.1	Process ba	ggage	Ш
		5.1.1	Identify forbidden dangerous goods	II
		5.1.2	Apply approval requirements	II
	5.2	Accept bag	gage	II
		5.2.1	Apply operator requirements	II
		5.2.2	Verify passenger baggage requirements	II
		5.2.3	Advise pilot-in-command, when applicable	II
	Collecting safe	ety data		
	7.1	Report dan	gerous goods accidents	0
	7.2	Report dan	gerous goods incidents	0
	7.3	Report und	eclared/mis-declared dangerous goods	0
	7.4	Report dan	gerous goods occurrences	

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TABLE 3.6
Personnel Responsible for the Planning of Aircraft Loading

Function: P	ersonnel responsible fo	r the planning of ai	rcraft loading.	Managing cargo pre-loading
0	Understanding	the basics of danger	rous goods	0
	0.1	Dangerous (goods applicability	0
		0.1.1	Understand the definition	0
		0.1.2	Recognize the legal framework (global, national)	0
		0.1.3	Identify the application and scope	0
		0.1.4	Differentiate hazard and risk	0
	0.2	Understandi	ng the general limitations	
		0.2.1	Develop a sense of forbidden dangerous goods	0
		0.2.2	Recognise potential hidden dangerous goods	0
		0.2.3	Familiarise with passenger provisions	0
	0.3	Identifying ro	oles and responsibilities	0
		0.3.1	Clarify the individual and collective role of the supply chain stake-holders	O.
		0.3.2	Understand the passenger's responsibilities	0
		0.3.3	Recognised the impact of State & operator variations	0
	0.4	Understandi	ng the importance of classification & packaging	0
		0.4.1	Identify the general information about classes, divisions	0
		0.4.2	Understand general principles of packing groups	0
		0.4.3	Consider multiple hazards	0
	0.5	Understandi	ng hazard communication	0
		0.5.1	Recognise the basic marking requirements	0
		0.5.2	Recognise the basic labelling requirements	0
		0.5.3	Identify the required documentation	0
	0.6	Familiarising	g with basic emergency response	0
		0.6.1	Create awareness about general emergency procedures	0
		0.6.2	Understand the employer's emergency response requirements	0
4	Managing carg	o pre-loading		
	4.1	Plan the load	d	
		4.1.1	Determine stowage requirements	
		4.1.2	Determine segregation, separation, compartment limitations	
	4.3	Issue NOTO	oc .	
		4.3.1	Enter required information	ш
		4.3.2	Verify conformance with load plan	ш
		4.3.3	Transmit to loading personnel	ш
7	Collecting safe	ty data	·	
	7.1	Report dang	erous goods accidents	Ш
	7.2		erous goods incidents	Ш
	7.3		clared/mis-declared dangerous goods	
	7.4	Report dang	erous goods occurrences	

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TABLE 3.7 Flight Crew

Function: F	light Crew	Managing cargo pre-loading			
0	Understanding	Understanding the basics of dangerous goods			
	0.1	Dangerous	goods applicability		
		0.1.1	Understand the definition		
		0.1.2	Recognise the legal framework (global, national)		
		0.1.3	Identify the application scope		
		0.1.4	Differentiate hazard and risk		
	0.2	Understand	ng the general limitations		
		0.2.1	Develop a sense of forbidden dangerous goods		
		0.2.2	Recognise potential hidden dangerous goods		
		0.2.3	Familiarise with passenger provisions		
	0.3	Identifying r	oles and responsibilities		
		0.3.1	Clarify the individual and collective role of the supply chain stake-holders	0	
		0.3.2	Understand the passenger's responsibilities		
		0.3.3	Recognise the impact of State & operator variations		
	0.4	Understand	ng the importance of classification & packaging		
		0.4.1	Identify the general information about classes, divisions		
		0.4.2	Understand general principles of packing groups		
		0.4.3	Consider multiple hazards		
	0.5	Understand	ng hazard communication		
		0.5.1	Recognise the basic marking requirements		
		0.5.2	Recognise the basic labelling requirements		
		0.5.3	Identify the required documentation		
	0.6	Familiarising	g with basic emergency response		
		0.6.1	Create awareness about general emergency procedures		
		0.6.2	Understand the employer's emergency response requirements		
6	Transporting c	argo/baggage			
	6.2	Manage dar	ngerous goods pre and during flight		
		6.2.1	Address dangerous goods not permitted in baggage		
		6.2.2	Interpret NOTOC		
		6.2.3	Apply procedures in the event of an emergency		
		6.2.4	Inform flight operations officer/flight dispatcher/air traffic control in the event of an emergency	Ш	
		6.2.5	Inform emergency services of the dangerous goods on the NOTOC in the event of an emergency		
7	Collecting safe	Collecting safety data			
	7.1	Report dang	erous goods accidents		
	7.2	Report dang	erous goods incidents		
	7.3	Report unde	clared/mis-declared dangerous goods		
	7.4	Report dang	erous goods occurrences		

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TABLE 3.8 Flight Operations Officers and Flight Dispatchers

Function: Pe	ersonnel responsible fo	Managing cargo pre-loading		
0	Understanding	Understanding the basics of dangerous goods		
	0.1	Dangerous	goods applicability	0
		0.1.1	Understand the definition	0
		0.1.2	Recognise the legal framework (global, national)	0
		0.1.3	Identify the application and scope	0
		0.1.4	Differentiate hazard and risk	0
	0.2	Understand	ing the general limitations	0
		0.2.1	Develop a sense of forbidden dangerous goods	0
		0.2.2	Recognise potential hidden undeclared dangerous goods	0
		0.2.3	Familiarise with passenger provisions	0
	0.3	Identifying i	oles and responsibilities	0
		0.3.1	Clarify the individual and collective role of the supply chain stake-holders	0
		0.3.2	Understand the passengers responsibilities	0
		0.3.3	Recognise the impact of State & operator variations	0
	0.4	Understand	ing the importance of classification & packaging	0
		0.4.1	Identify the general information about classes, divisions	0
		0.4.2	Understand general principles of packing groups	0
		0.4.3	Consider multiple hazards	0
	0.5	Understand	ing hazard communication	0
		0.5.1	Recognise the basic marking requirements	0
		0.5.2	Recognise the basic labelling requirements	0
		0.5.3	Identify the required documentation	0
	0.6	Familiarisin	g with basic emergency response	0
		0.6.1	Create awareness about general emergency procedures	0
		0.6.3	Understand the employer's emergency response requirements	0
6	Transporting of	argo/baggage		
	6.2	Manage da	ngerous goods pre and during flight	
		6.2.1	Address dangerous goods not permitted in baggage	
		6.2.2	Interpret NOTOC	
		6.2.3	Apply procedures in the event of an emergency	
		6.2.4	Inform flight operations officer/flight dispatcher/air traffic control in the event of an emergency	Ш
		6.2.5	Inform emergency services of the dangerous goods on the NOTOC in the event of an emergency	Ш

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TABLE 3.9 Cabin Crew

Function: Cabin Crew				Transporting cargo/ baggage
0	Understanding the basics of dangerous goods		erous goods	0
	0.1	Dangerous	goods applicability	0
		0.1.1	Understand the definition	0
		0.1.2	Recognise the legal framework (global, national)	0
		0.1.3	Identify the application and scope	0
		0.1.4	Differentiate hazard and risk	0
	0.2	Understand	ding the general limitations	0
		0.2.1	Develop a sense of forbidden dangerous goods	0
		0.2.2	Recognise the potential hidden dangerous goods	0
		0.2.3	Familiarise with passenger's provisions	0
	0.3	Identifying	roles and responsibilities	0
		0.3.1	Clarify the individual and collective role of the supply chain stake-holders	0
		0.3.2	Understand the passengers responsibilities	
		0.3.3	Recognise the impact of State & operator variations	0
	0.4	Understand	ding the importance of classification & packaging	0
		0.4.1	Identify the general information about classes, divisions	0
	0.5	Understand	ding hazard communication	0
		0.5.1	Recognise the basic marking requirements	0
		0.5.2	Recognise the basic labelling requirements	0
		0.5.3	Identify the required documentation for DG shipments	0
	0.6	Familiarisir	ng with basic emergency response	0
		0.6.1	Create awareness about general emergency procedures	0
		0.6.2	Under the employer's emergency response requirements	0
5	Accepting pass	enger and crew ba		
	5.2	Accept bag	gage	
		5.2.1	Apply operator requirements	
		5.2.2	Verify passenger baggage requirements	
6	Transporting ca	rgo/baggage		
	6.2	Manage da	ingerous goods pre and during flight	
		6.2.1	Address dangerous goods not permitted in baggage	
		6.2.3	Apply procedures in the event of an emergency	
7	Collecting safet	y data	1	
	7.1	Report dan	gerous goods accidents	0
	7.2	Report dan	gerous goods incidents	0
	7.3	Report undeclared/mis-declared dangerous goods		0
	7.4	Report dan	gerous goods occurrences	

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TABLE 3.10
Personnel Responsible for the Screening of Passengers and Crew and theirBaggage, Cargo and Mail

Function:	on: Personnel responsible for security screening (Passengers and crew, baggage, cargo and mail)			Collecting safety data
0	Understandi	Understanding the basics of dangerous goods		0
	0.1	Dangerous good	Is applicability	0
		0.1.1	Understand the definition	0
		0.1.2	Recognise the legal framework (global, national)	0
		0.1.3	Identify the application and scope	0
		0.1.4	Differentiate hazard and risk	0
	0.2	Understanding th	he general limitations	0
		0.2.1	Develop a sense of forbidden dangerous goods	0
		0.2.2	Recognise potential hidden dangerous goods	0
		0.2.3	Familiarise with passenger provisions	0
	0.3	Identifying roles	and responsibilities	0
		0.3.1	Clarify the individual and collective role of the supply chain stakeholders	0
		0.3.2	Understand the passenger's responsibilities	0
		0.3.3	Recognise the impact of State & operator variations	0
	0.4	Understanding th	he importance of classification & packaging	0
		0.4.1	Identify the general information about classes, divisions	0
	0.5	Understanding h	nazard communication	0
		0.5.1	Recognise the basic marking requirements	0
		0.5.2	Recognise the basic labeling requirements	0
		0.5.3	Identify the required documentation	0
	0.6	Familiarising with	h basic emergency response	0
		0.6.1	Create awareness about general emergency procedures	0
		0.6.2	Understand the employer's emergency response requirements	0
3	Processing/a	accepting cargo		
	3.4	Process/accept of	cargo other than dangerous goods	Ш
		3.4.1	Check documentation for indications of hidden/undeclared dangerousgoods	Ш
		3.4.2	Check packages for indications of hidden/undeclared dangerous goods	Ш
5	Accepting pa	assenger and crew ba	ggage	
	5.1	Process baggag	е	
		5.1.1	Identify forbidden dangerous goods	Ш
		5.1.2	Apply approval requirements	
7	Collecting sa	fety data		
	7.1	Report dangerou	us goods accidents	0
	7.2	Report dangerou	us goods incidents	0
	7.3	Report undeclare	ed/mis-declared dangerous goods	0

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3.16 MATRIX OF EMPLOYEE GROUPINGS AND DEFINITIONS.

- 3.16.1 The employee groupings below are to assist employers and training organisations in defining employee groupings for training purposes as per the requirements in CAR 92.00.8 and CAR 92.00.1.
- 3.16.2 For the purpose of these groupings, the term *deemed employee* means a person who, although not employed by an aircraft operator, ground handling agent, freight forwarder, screening authority or shipper of dangerous goods, performs for the operator, ground handling agent, freight forwarder, screening authority or shipper any of the following services:
 - a. accepting cargo consigned for transport on an aircraft, or supervising someone whose duties include accepting such cargo at any time after it leaves the custody of the original consignor;
 - b. acting as a member of an aircraft's flight crew or as a load planner;
 - c. acting as a member of an aircraft's cabin crew;
 - d. handling cargo consigned for transport on an aircraft at any time after it leaves the custody of the original consignor, or supervising someone whose duties include handling such cargo;
 - e. handling passengers' checked or carry-on baggage, or supervising someone whose duties include handling such baggage;
 - f. packing dangerous goods, or supervising someone whose duties include packing such goods, in the course of the goods' being consigned for carriage on an aircraft.

3.16.3 **Group A employee** means:

- a. an employee whose duties include accepting, or supervising someone whose duties include accepting, cargo known or believed to contain dangerous goods consigned for transport on an aircraft at any time after it leaves the custody of the original consignor; or
- b. a deemed employee whose function includes those duties; or
- c. any other employee whose duties are defined in the operations manual including but not limited to training, moderating and overseeing dangerous goods activities within the organisation.

3.16.4 **Group B employee** means:

- a. an employee whose duties include accepting, or supervising someone whose duties include accepting, cargo consigned for transport on an aircraft (other than cargo known or believed to contain dangerous goods) at any time after it leaves the custody of the original consignor; or
- b. a deemed employee whose function includes those duties.

3.16.5 **Group C employee** means:

- a. an employee who is a member of an aircraft's flight crew or a load planner or flight dispatcher; or
- b. a deemed employee whose function includes performing the duties of a member of an aircraft's flight crew or flight dispatcher or a load planner

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3.16.6 **Group D employee** means:

- a. an employee who is a member of an aircraft's cabin crew; or
- b. a deemed employee whose function includes performing the duties of a member of an aircraft's cabin crew.

3.16.7 *Group E employee* means:

- a. any employee of an operator, ground handling agent, freight forwarder or screening authority who is not a group A, B, C or D employee and whose duties involve handling:
 - i. cargo consigned for transport on an aircraft at any time after it leaves the custody of the original consignor; or
 - ii. passengers' checked or carry-on baggage; or
- a. a deemed employee whose function includes those duties.

3.16.8 *Group F employee* means:

- a. an employee of a shipper of goods whose duties include packing dangerous goods, or supervising someone else whose duties include packing dangerous goods, in the course of the goods being consigned for transport on an aircraft; or
- b. a deemed employee whose function includes those duties.

3.16.9 **Group G employee** means:

- a. an employee of a shipper of goods whose duties include handling and packing infectious substances, or supervising someone else whose duties include handling and packing infectious substances, in the course of the goods being consigned for transport on an aircraft; or
- b. a deemed employee whose function includes those duties.

3.16.10 *Group H employee* means:

- a. employee of a shipper of goods whose duties include handling and packing Lithium Batteries, or supervising someone else whose duties include handling and packing lithium batteries, in the course of the goods being consigned for transport on an aircraft; or
- b. a deemed employee whose function includes those duties.
- 3.16.11 **Load planner**, in relation to dangerous goods, means a person nominated by an operator to be responsible for any 1 or more of the following:
 - a. specifying where dangerous goods may be stowed on an aircraft;
 - specifying the necessary segregation of the goods from other dangerous goods, other cargo, or passengers on the aircraft;
 - c. preparing information for the use of the pilot-in-command;
 - d. providing dangerous goods emergency response information for the pilot-in command.

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Dangerous Training Employee Gro	pupings	
Group A	 Dangerous Goods Acceptance personnel Instructors/Moderators/ designated DG responsible personnel/etc 	
Group B	 Non-DG Cargo acceptance personnel 	
Group C	 Pilots/load controllers Flight dispatch Flight Operations officers 	
Group D	Cabin Crew	
Group E	 Passenger handling Baggage handlers Warehouse personnel Security Screeners 	
Group F	 Shippers Packers of dangerous goods Freight forwarders Courier personnel 	
Group G	Infectious substances handling personnel	
Group H	Lithium battery handling personnel	

DEVELOPED BY:			
June	Bheki Ngiba	09 June 2022	
SIGNATURE OF ????	NAME IN BLOCK LETTERS	DATE	
REVIEWED & VALIDATED BY:			
Du	Nico Smit	09 June 2022	
SIGNATURE OF SM: DC	NAME IN BLOCK LETTERS	DATE	
APPROVED BY:			
April -	Luvuyo Gqeke	09 June 2022	
SIGNATURE OF E: AVSEC	NAME IN BLOCK LETTERS	DATE	

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