



DANGEROUS GOODS PANEL (DGP)

TWENTY-FIFTH MEETING

Montréal, 19 to 30 October 2015

Agenda Item 6: Resolution, where possible, of the non-recurrent work items identified by the Air Navigation Commission or the panel:

6.2: Development of competency-based training provisions for dangerous goods

COMPETENCY-BASED TRAINING

(Presented by D. Mirko)

SUMMARY

This information paper includes, in the appendix, the presentation given by D. Mirko during discussion on Competency-Based Training for Dangerous Goods Personnel and State Employees (DGP/25-WP/37).

APPENDIX

**TRAINING COMMENTS ON COMPETENCY-BASED TRAINING FOR DANGEROUS GOODS
PERSONNEL AND STATE EMPLOYEES (DGP/25-WP/37)**

TRAINING
Comments to WP 37.

1

Comment

(draft proposal on number functions).

WP 37 proposes system of training, where employer should create his program within the organization. To determine the what knowledge his personnel needs, for performing specific functions, he will use matrix tool and process flowchart, to create his program. He will mark the point of competency element and the knowledge element.

	Matrix tool																				
	CU 1 Classifying dangerous goods			CU 2 Preparing dangerous goods shipment					CU 3 Processing/ accepting cargo				CU 4 Managing cargo pre-loading			CU 5 Accepting passenger and crew baggage		CU 6 Transporting cargo/baggage			
	CE 1.1	CE 1.2	CE 1.3	CE 2.1	CE 2.2	CE 2.3	CE 2.4	CE 2.5	CE 3.1	CE 3.2	CE 3.3	CE 3.4	CE 4.1	CE 4.2	CE 4.3	CE 5.1	CE 5.2	CE 6.1	CE 6.2	CE 6.3	
Dangerous goods knowledge																					
Scope and applicability																					
Limitation of dangerous goods on aircraft																					
Definitions																					
Training																					
Dangerous goods security																					
General provisions concerning radioactive material																					

Process functions corresponding to the competency

- CU 1 Classifying dangerous goods
- CU 2 Preparing dangerous goods shipment
- CU 3 Processing/ accepting cargo
- CU 4 Managing cargo preloading
- CU 5 Accepting passenger and crew baggage
- CU 6 Transporting cargo/baggage

Process flowchart

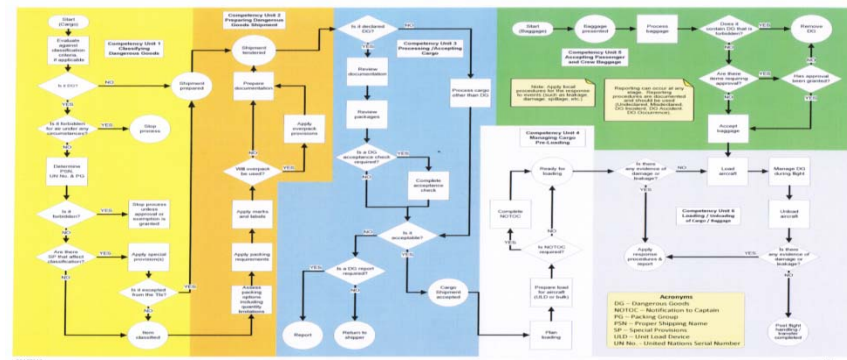


Table 1-4. Content of training courses

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



† CATEGORIES

- 1 — Shippers and persons undertaking the responsibilities of shippers
- 2 — Packers
- 3 — Staff of freight forwarders involved in processing dangerous goods
- 4 — Staff of freight forwarders involved in processing cargo or mail (other than dangerous goods)
- 5 — Staff of freight forwarders involved in the handling, storage and loading of cargo or mail
- 6 — 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



Process functions

- CU 1 Classifying dangerous goods
- CU 2 Preparing dangerous goods shipment
- CU 3 Processing/ accepting cargo
- CU 4 Managing cargo preloading
- CU 5 Accepting passenger and crew baggage
- CU 6 Transporting cargo/baggage

WP 37 indicates 6 functions, based on process flowchart.

In our point of view, we need to indicate 7 functions ,

to reflect current contracting practice in international transport of ground handling agents for cargo and for baggage.

DG transportation involves contract functions segregation based on :

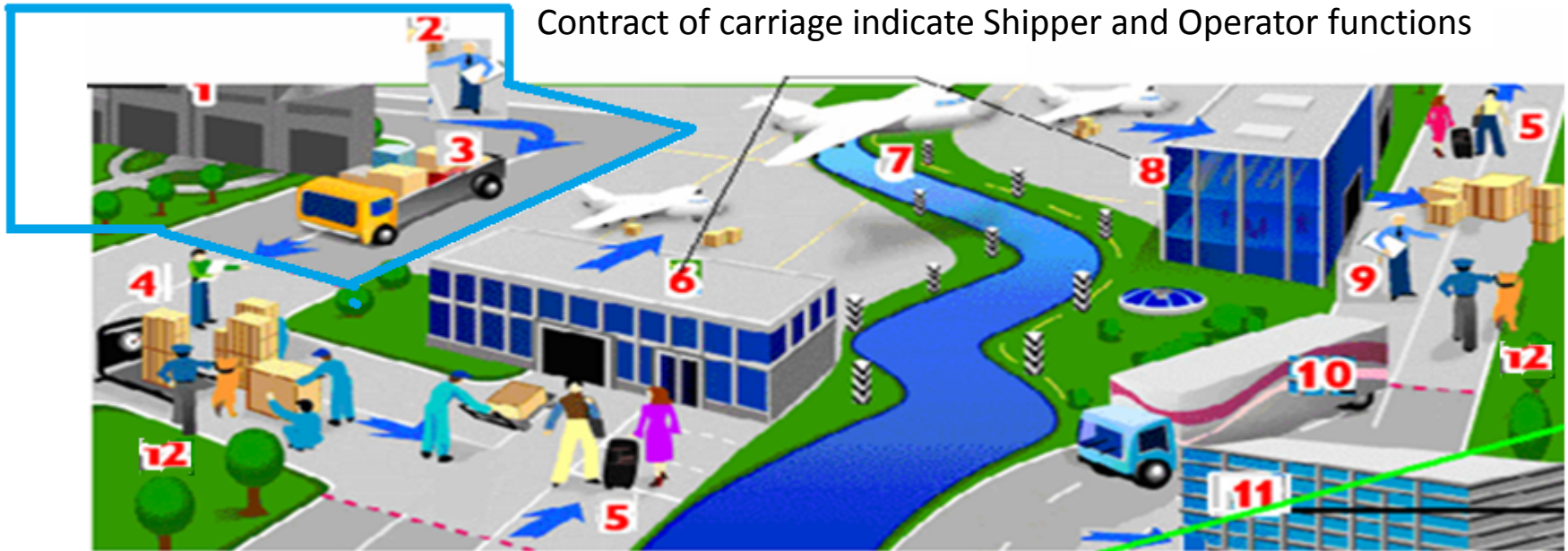
- contract of carriage (indicate Shipper and Operator);
- international practice of contracting out of a business process to another party (outsourcing).

Example of outsourcing :

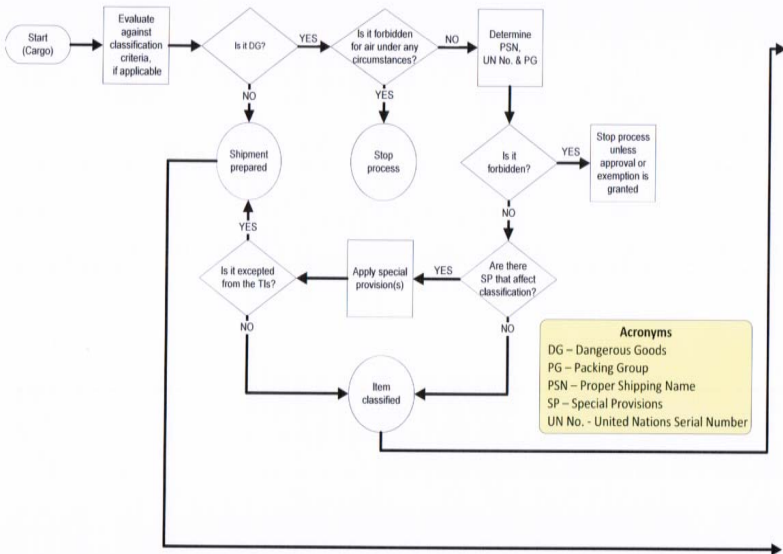
- Shippers responsibilities may be outsourced to “relevant person” (Part 5, ch.1 , par 1.4) ;
- Operator responsibilities, may be outsourced to ground handling agents (Part 7, 7 (i).).

CU1+CU2 functions covers shippers responsibilities / outsourcing to relevant persons

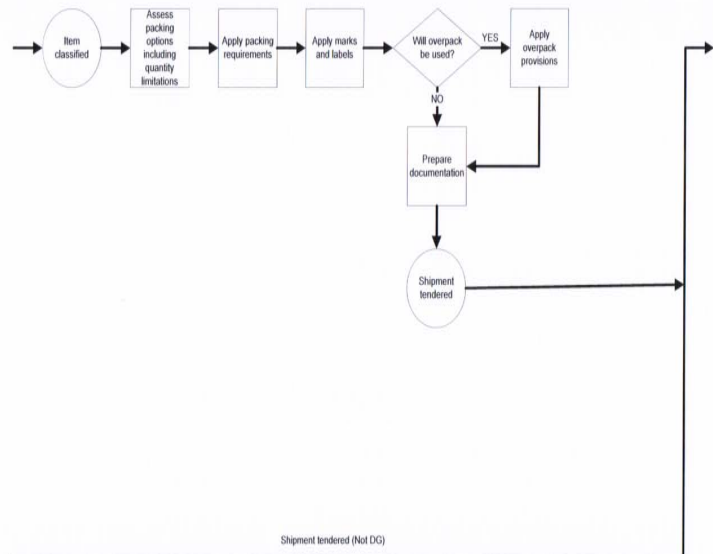
Contract of carriage indicate Shipper and Operator functions



**Competency Unit 1
Classifying Dangerous Goods**



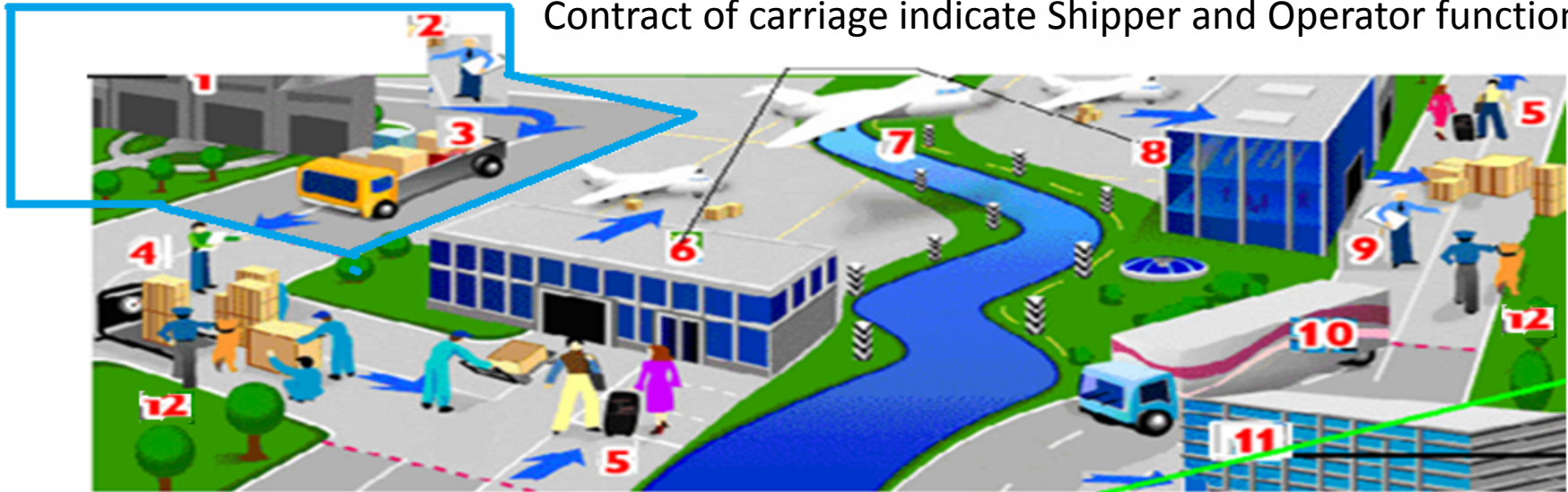
**Competency Unit 2
Preparing Dangerous Goods Shipment**



Shipment tendered (Not DG)

CU1+CU2 shipper competence framework

Contract of carriage indicate Shipper and Operator functions



CE 1.1	Evaluate substances or articles against classification criteria, as applicable
PC 1.1.1	Determine if it is dangerous goods
PC 1.1.2	Determine if it is forbidden under any circumstances
CE 1.2	Determine dangerous goods description
PC 1.2.1	Determine class or division
PC 1.2.2	Determine packing group, if applicable
PC 1.2.3	Determine proper shipping name and UN number
PC 1.2.4.	Determine if it is forbidden unless approval or exemption is granted
CE 1.3	Review special provisions
PC 1.3.1	Assess if special provision(s) is applicable
PC 1.3.2	Apply special provision(s)

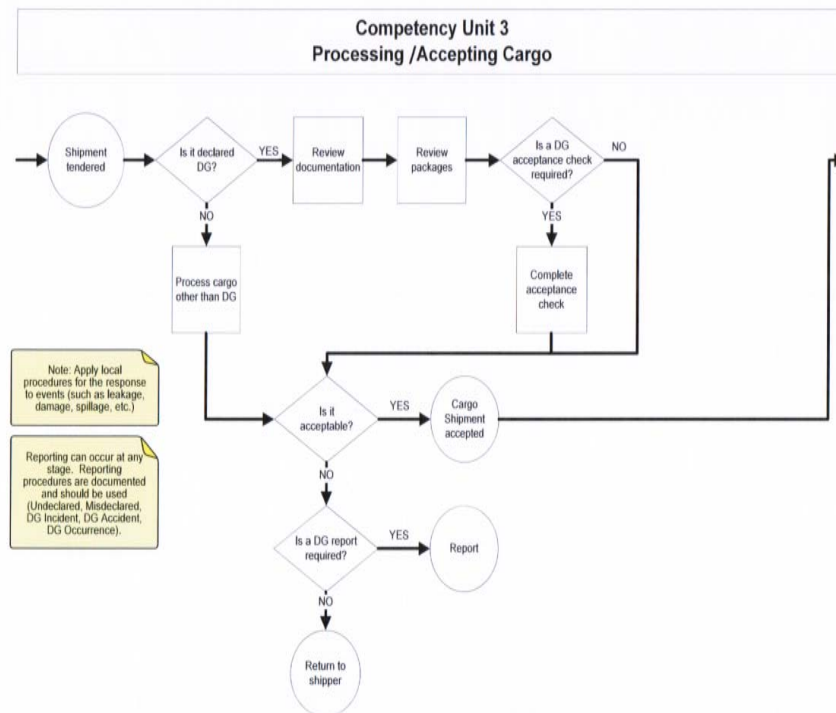
CE 2.1	Assess packing options including quantity limitations
PC 2.1.1	Consider limitations (de minimus quantities, excepted quantities, limited quantities, passenger aircraft, cargo aircraft only, special provisions)
PC 2.1.2	Consider State and operator variations
PC 2.1.3	Determine if all-packed-in-one can be used
PC 2.1.4	Select how dangerous goods will be shipped based on limitations and variations
CE 2.2	Apply packing requirements
PC 2.2.1	Consider constraints of packing instructions
PC 2.2.2	Select packaging materials (absorbent, cushioning, etc.)
PC 2.2.3	Assemble package
CE 2.3	Apply marks and labels
PC 2.3.1	Determine applicable marks
PC 2.3.2	Apply marks
PC 2.3.3	Determine applicable labels
PC 2.3.4	Apply labels
CE 2.4	Determine if overpack can be used
PC 2.4.1	Apply marks if necessary
PC 2.4.2	Apply labels if necessary
CE 2.5	Prepare documentation
PC 2.5.1	Complete the dangerous goods transport document
PC 2.5.2	Complete other transport documents (e.g. AWB)
PC 2.5.3	Include other required documentation (e.g. approvals/exemptions, etc.), as applicable
PC 2.5.4	Retain copies of documents as required

CU 3 covers operator and outsourcing to agents, performing acceptance check

International practice of contracting out of a business process to another party



Competence framework



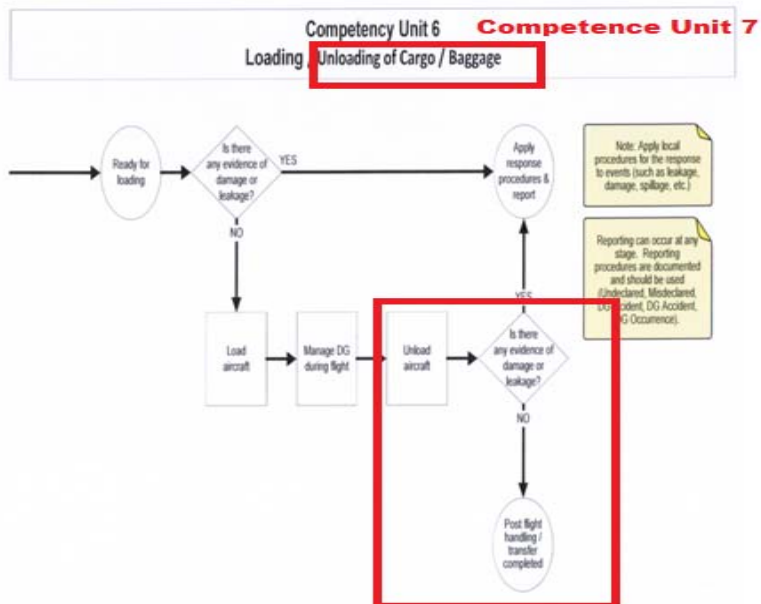
- | | |
|---------------|--------------------------------------------------------------------|
| CE 3.1 | Review documentation |
| PC 3.1.1 | Verify air waybill |
| PC 3.1.2 | Verify dangerous goods transport document |
| PC 3.1.3 | Verify other documents as applicable (exemptions, approvals, etc.) |
| PC 3.1.4 | Verify State/operator variations |
| CE 3.2 | Review package(s) |
| PC 3.2.1 | Verify marking |
| PC 3.2.2 | Verify label |
| PC 3.2.3 | Verify package type |
| PC 3.2.4 | Verify package conditions |
| PC 3.2.5 | Verify State/operator variations |
| CE 3.3 | Complete acceptance procedures |
| PC 3.3.1 | Complete acceptance checklist, if applicable |
| PC 3.3.2 | Provide shipment information for load planning |
| PC 3.3.3 | Retain documents as required |
| CE 3.4 | Process/accept cargo other than dangerous goods |
| PC 3.4.1 | Check documentation for indications of undeclared dangerous goods |
| PC 3.4.2 | Check packages for indications of undeclared dangerous goods |

CU6 covers operator transportation function, including unload of cargo and baggage. In practice unloading functions is outsourced to ground handling agent, and it should be presented as separate function – CU7.



International practice of contracting out of a business process to another party

Competence framework



CE 6.1 Load aircraft

- PC 6.1.1 Transport cargo/baggage to aircraft
- PC 6.1.2 Check packages for indications of undeclared dangerous goods
- PC 6.1.3 Check for damage and/or leakage
- PC 6.1.4 Apply stowage requirements (e.g. segregation, separation, orientation)
- PC 6.1.5 Verify that NOTOC reflects against aircraft load
- PC 6.1.6 Verify passenger baggage requirements if applicable
- PC 6.1.7 Inform pilot-in-command and flight operations officer/flight dispatcher

CE 6.2 Manage dangerous goods during flight

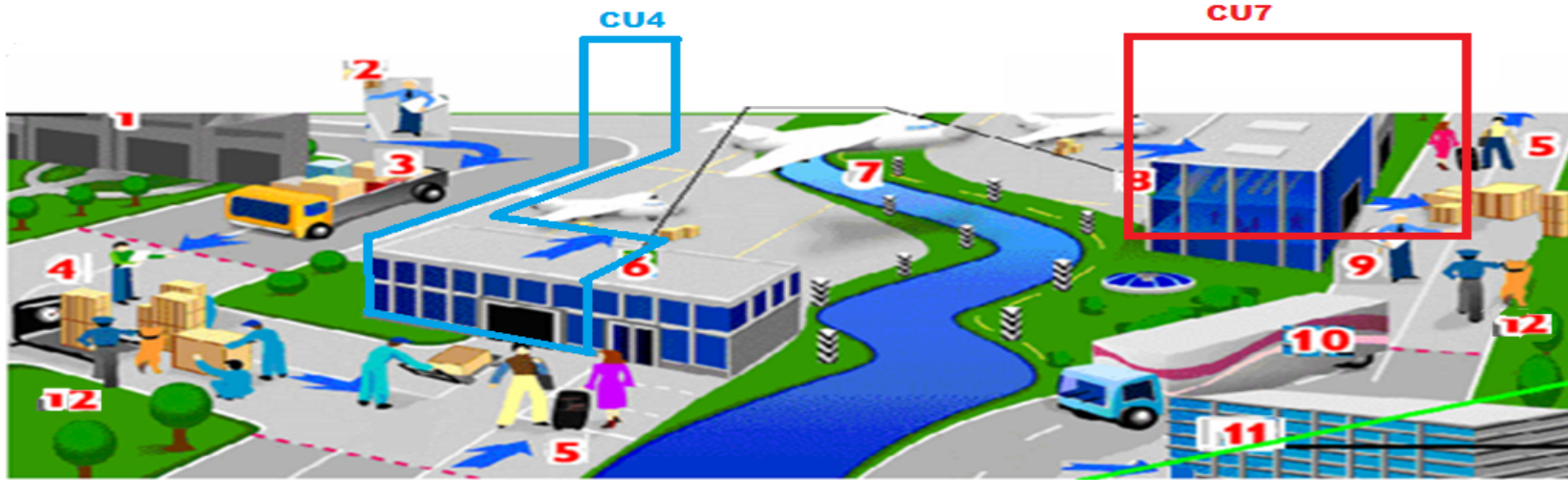
- PC 6.2.1 Detect presence of dangerous goods not permitted in baggage
- PC 6.2.2 Apply procedures in the event of an emergency
- PC 6.2.3 Inform flight operations officer/flight dispatcher/air traffic control in the event of an emergency

CU7 Unload /Cargo /Baggage

CE 7 Unload aircraft

- PC 7.1 Apply specific unloading considerations as applicable
- PC 7.2 Check packages for indications of undeclared dangerous goods
- PC 7.3 Check for damage and/or leakage
- PC 7.4 Transport cargo/baggage to facility/terminal

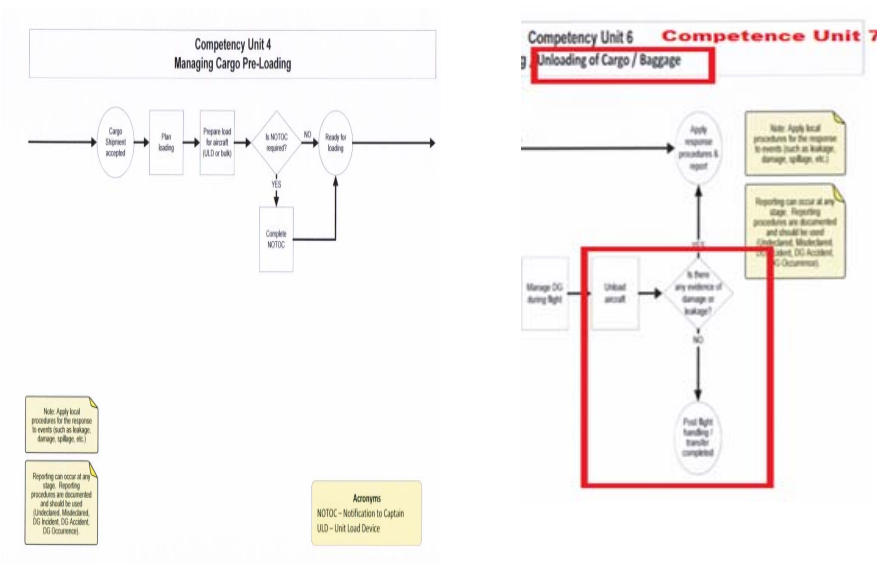
General functions of ground handling agent are in CU4 and CU7.



International practice of contracting out of a business process to another party

Competence framework

- CE 4.1** Plan loading
 - PC 4.1.1 Determine stowage requirements
 - PC 4.1.2 Determine segregation, separation, aircraft/compartment limitations
- CE 4.2** Prepare load for aircraft
 - PC 4.2.1 Check packages for indications of undeclared dangerous goods
 - PC 4.2.2 Check for damage and/or leakage
 - PC 4.2.3 Apply stowage requirements (e.g. segregation, separation, orientation)
 - PC 4.2.4 Apply ULD tags when applicable
 - PC 4.2.5 Transport cargo to aircraft
- CE 4.3** Issue NOTOC
 - PC 4.3.1 Enter required information
 - PC 4.3.2 Verify conformance with load plan
 - PC 4.3.3 Transmit to loading personnel
- CU7 Unload /Cargo /Baggage**
- CE 7** Unload aircraft
 - PC 7.1 Apply specific unloading considerations as applicable
 - PC 7.2 Check packages for indications of undeclared dangerous goods
 - PC 7.3 Check for damage and/or leakage
 - PC 7.4 Transport cargo/baggage to facility/terminal



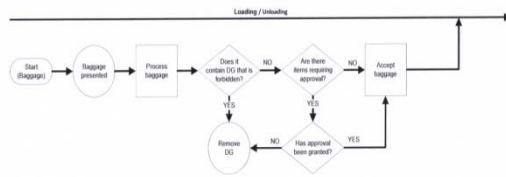
Functions of operator passenger baggage agent are in CU5+CU7

International practice of contracting out of a business process to another party



Minimum competence framework

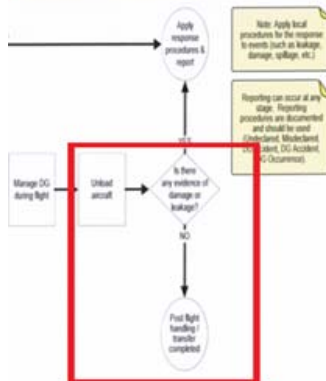
Competency Unit 5 Accepting Passenger and Crew Baggage



Note: Apply local procedures for the response to events (such as baggage damage, spillage, etc.)

Reporting can occur at any stage. Reporting procedures are documented and should be used (Incident, Malfunction, DG Incident, DG Accident, DG Occurrence).

Competency Unit 6 Unloading of Cargo / Baggage



CE 5.1 Process baggage

- PC 5.1.1 Identify forbidden dangerous good
- PC 5.1.2 Apply approval requirements

CE 5.2 Accept baggage

- PC 5.2.1 Apply operator requirements
- PC 5.2.2 Advise pilot in command

CU7 Unload /Cargo /Baggage

CE 7 Unload aircraft

- PC 7.1 Apply specific unloading considerations as applicable
- PC 7.2 Check packages for indications of undeclared dangerous goods
- PC 7.3 Check for damage and/or leakage
- PC 7.4 Transport cargo/baggage to facility/terminal

We propose to add to the attachment 4, chapter 2, par.2.7, cl.2.7.2.1 function 7 .

“g) Unload /Cargo /Baggage.”

and amend numbers of competence units and sample matrix tool.

Functions corresponding to the competency

CU 1	Classifying dangerous goods
CU 2	Preparing dangerous goods shipment
CU 3	Processing/ accepting cargo
CU 4	Managing cargo preloading
CU 5	Accepting passenger and crew baggage
CU 6	Transporting cargo/baggage
CU7	Unload /Cargo /Baggage

Sample matrix tool

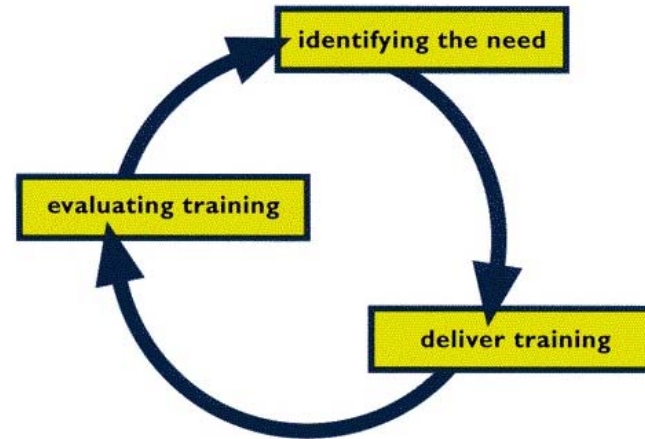
The image shows a sample matrix tool grid. It consists of a large grid of cells. The top row contains several columns with headers, and the first column is a dark blue header. A red box highlights a cell in the top right corner of the grid.

2

Comment

(draft proposal on training modules).

In new method, for develop competency-based training, an employer should conducts a training needs analysis to determine what he needs. Since it will be his unique analysis, it is not clear what will be the minimum result .



Concerns related to removing categories to current Table 1-4

We agree with presenter of WP 37, that keeping the current tables in the new training chapter would be in conflict with the principles of competency-based training.

But on the other hand, categories of table 1-4 were also used as identification tool of minimum function/competence.

Such international identification of competence gives possibility operators in foreign states, to give for outsourcing:

- ground handling service;
- service for passenger baggage;
- service for tendering agents;

without assessment of their minimum competence.

It indicated for operator a minimum competence of foreign shipper, which sometimes may be represented by group of relevant persons.

In new system of competence base training, operators in foreign states will have to spend a lot of time to find out (by assessment) what competence has personal of contracted parties.

We agree with presenter of WP 37, that mandatory requirements in current system are limiting maximum knowledge should be removed.

But we can't accept removal of indication minimum competence requirements of knowledge which were used for categories of table 1-4 .

Draft proposal: To add to new chapter 4, paragraph 4.2 (Training programmes), 4.2.1.

4.2.1 The employer must establish and maintain a dangerous goods training programme, **having as minimum as one Training Module.**

Table 1-4. Content of training courses

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

CATEGORIES

- 1— Shippers and persons undertaking the responsibilities of shippers
- 2— Packers
- 3— Staff of freight forwarders involved in processing dangerous goods
- 4— Staff of freight forwarders involved in processing cargo or mail (other than dangerous goods)
- 5— Staff of freight forwarders involved in the handling, storage and loading of cargo or mail
- 6— 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



Training Modules

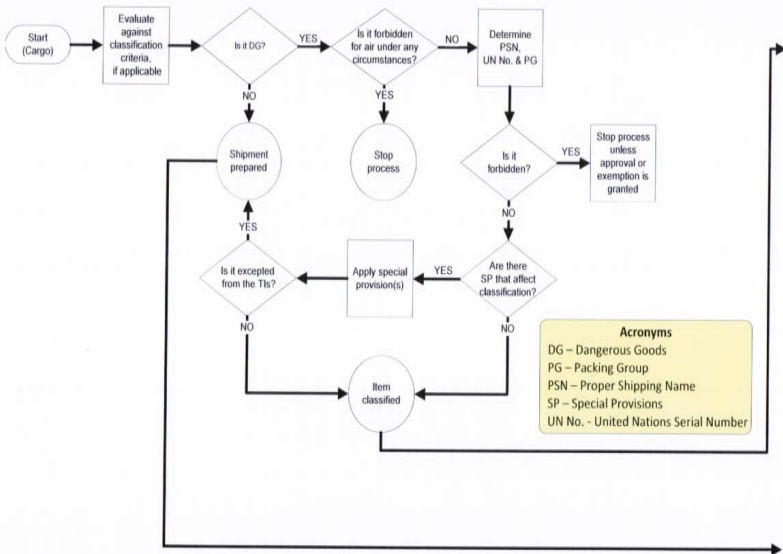
M 1	Classifying dangerous goods and preparing dangerous goods shipment (CU1+CU2)
M 2	Processing/ accepting cargo (CU3)
M 3	Transporting cargo/baggage (CU6+CU7)
M 4	Managing cargo pre-loading and unloading of cargo (CU4+CU7)
M 5	Accepting passenger and crew baggage and loading/unloading of baggage (CU5+CU7)

Minimum of competence for 1 training module set up as follow :

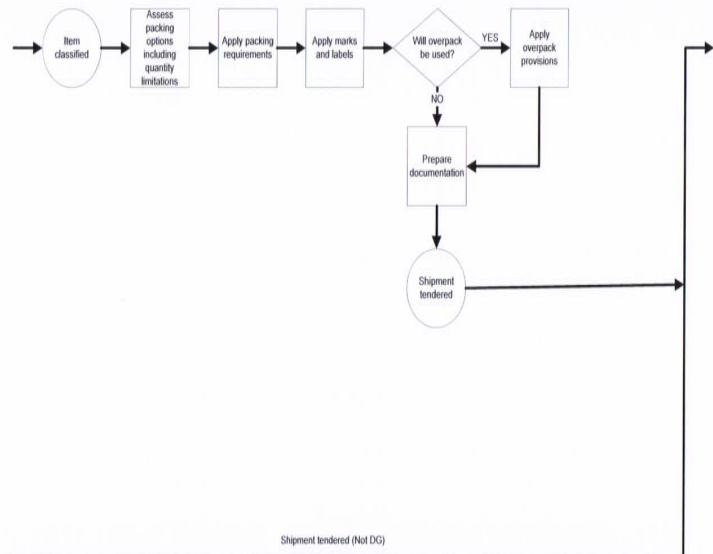
CU1+CU2 = M 1 Classifying dangerous goods and preparing dangerous goods shipment



**Competency Unit 1
Classifying Dangerous Goods**



**Competency Unit 2
Preparing Dangerous Goods Shipment**



M 1 Classifying dangerous goods and preparing dangerous goods shipment (CU1+CU2)

CU1+CU2

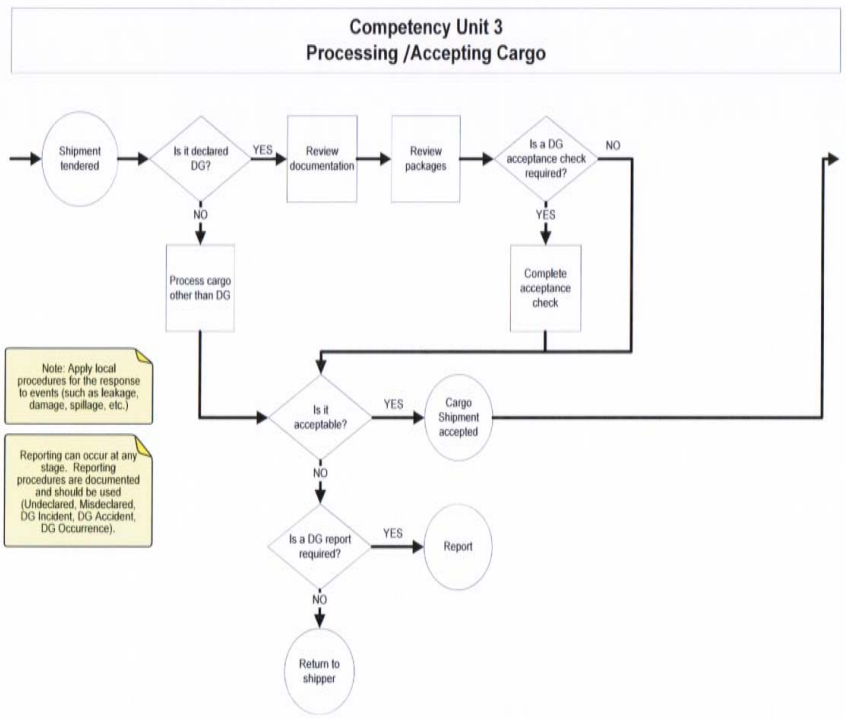


Minimum competence framework

CE 1.1	<u>Evaluate substances or articles against classification criteria, as applicable</u>
PC 1.1.1	Determine if it is dangerous goods
PC 1.1.2	Determine if it is forbidden under any circumstances
CE 1.2	<u>Determine dangerous goods description</u>
PC 1.2.1	Determine class or division
PC 1.2.2	Determine packing group, if applicable
PC 1.2.3	Determine proper shipping name and UN number
PC 1.2.4.	Determine if it is forbidden unless approval or exemption is granted
CE 1.3	<u>Review special provisions</u>
PC 1.3.1	Assess if special provision(s) is applicable
PC 1.3.2	Apply special provision(s)

CE 2.1	<u>Assess packing options including quantity limitations</u>
PC 2.1.1	Consider limitations (de minimus quantities, excepted quantities, limited quantities, passenger aircraft, cargo aircraft only, special provisions)
PC 2.1.2	Consider State and operator variations
PC 2.1.3	Determine if all-packed-in-one can be used
PC 2.1.4	Select how dangerous goods will be shipped based on limitations and variations
CE 2.2	<u>Apply packing requirements</u>
PC 2.2.1	Consider constraints of packing instructions
PC 2.2.2	Select packaging materials (absorbent, cushioning, etc.)
PC 2.2.3	Assemble package
CE 2.3	<u>Apply marks and labels</u>
PC 2.3.1	Determine applicable marks
PC 2.3.2	Apply marks
PC 2.3.3	Determine applicable labels
PC 2.3.4	Apply labels
CE 2.4	<u>Determine if overpack can be used</u>
PC 2.4.1	Apply marks if necessary
PC 2.4.2	Apply labels if necessary
CE 2.5	<u>Prepare documentation</u>
PC 2.5.1	Complete the dangerous goods transport document
PC 2.5.2	Complete other transport documents (e.g. AWB)
PC 2.5.3	Include other required documentation (e.g. approvals/exemptions, etc.), as applicable
PC 2.5.4	Retain copies of documents as required

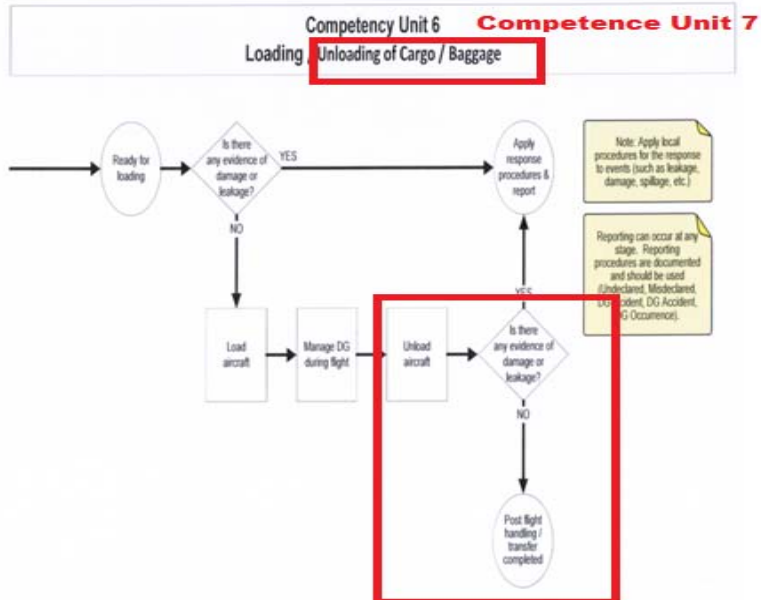
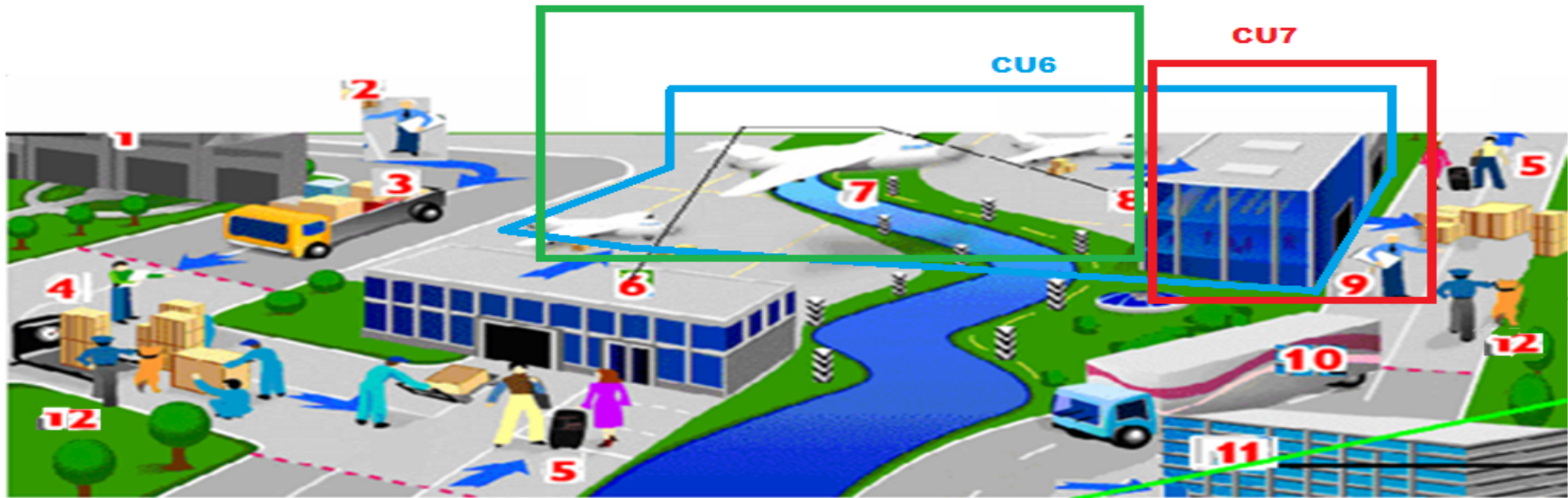
M 2 Processing/ accepting cargo (CU3)



Minimum competence framework

CE 3.1	Review documentation
PC 3.1.1	Verify air waybill
PC 3.1.2	Verify dangerous goods transport document
PC 3.1.3	Verify other documents as applicable (exemptions, approvals, etc.)
PC 3.1.4	Verify State/operator variations
CE 3.2	Review package(s)
PC 3.2.1	Verify marking
PC 3.2.2	Verify label
PC 3.2.3	Verify package type
PC 3.2.4	Verify package conditions
PC 3.2.5	Verify State/operator variations
CE 3.3	Complete acceptance procedures
PC 3.3.1	Complete acceptance checklist, if applicable
PC 3.3.2	Provide shipment information for load planning
PC 3.3.3	Retain documents as required
CE 3.4	Process/accept cargo other than dangerous goods
PC 3.4.1	Check documentation for indications of undeclared dangerous goods
PC 3.4.2	Check packages for indications of undeclared dangerous goods

M 3 Transporting cargo/baggage (CU6+CU7)



Minimum competence framework

CE 6.1 Load aircraft

- PC 6.1.1 Transport cargo/baggage to aircraft
- PC 6.1.2 Check packages for indications of undeclared dangerous goods
- PC 6.1.3 Check for damage and/or leakage
- PC 6.1.4 Apply stowage requirements (e.g. segregation, separation, orientation)
- PC 6.1.5 Verify that NOTOC reflects against aircraft load
- PC 6.1.6 Verify passenger baggage requirements if applicable
- PC 6.1.7 Inform pilot-in-command and flight operations officer/flight dispatcher

CE 6.2 Manage dangerous goods during flight

- PC 6.2.1 Detect presence of dangerous goods not permitted in baggage
- PC 6.2.2 Apply procedures in the event of an emergency
- PC 6.2.3 Inform flight operations officer/flight dispatcher/air traffic control in the event of an emergency

CU7 Unload /Cargo /Baggage

CE 7 Unload aircraft

- PC 7.1 Apply specific unloading considerations as applicable
- PC 7.2 Check packages for indications of undeclared dangerous goods
- PC 7.3 Check for damage and/or leakage
- PC 7.4 Transport cargo/baggage to facility/terminal

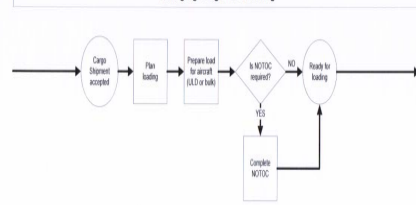
M 4 Managing cargo pre-loading and unloading of cargo (CU4+CU7)



Minimum competence framework

- | | |
|-----------------------------------|------------------------------------------------------------------------|
| CE 4.1 | Plan loading |
| PC 4.1.1 | Determine stowage requirements |
| PC 4.1.2 | Determine segregation, separation, aircraft/compartment limitations |
| CE 4.2 | Prepare load for aircraft |
| PC 4.2.1 | Check packages for indications of undeclared dangerous goods |
| PC 4.2.2 | Check for damage and/or leakage |
| PC 4.2.3 | Apply stowage requirements (e.g. segregation, separation, orientation) |
| PC 4.2.4 | Apply ULD tags when applicable |
| PC 4.2.5 | Transport cargo to aircraft |
| CE 4.3 | Issue NOTOC |
| PC 4.3.1 | Enter required information |
| PC 4.3.2 | Verify conformance with load plan |
| PC 4.3.3 | Transmit to loading personnel |
| CU7 Unload /Cargo /Baggage | |
| CE 7 | Unload aircraft |
| PC 7.1 | Apply specific unloading considerations as applicable |
| PC 7.2 | Check packages for indications of undeclared dangerous goods |
| PC 7.3 | Check for damage and/or leakage |
| PC 7.4 | Transport cargo/baggage to facility/terminal |

Competency Unit 4 Managing Cargo Pre-Loading

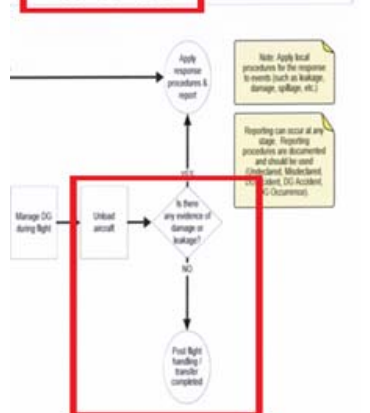


Note: Apply local procedures for the response to events such as leakage, damage, spillage, etc.)

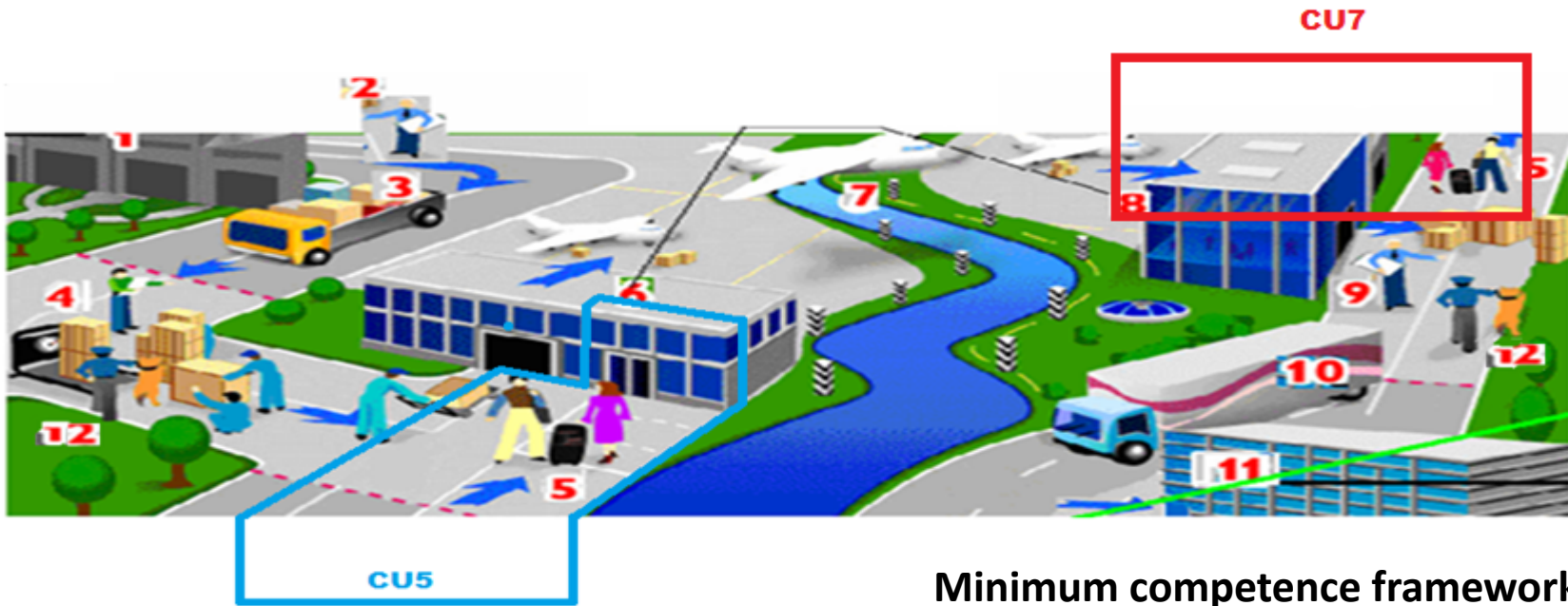
Reporting can occur at any stage. Reporting procedures are documented and should be used (Undeclared, Unbalanced, DG Incident, DG Accident, DG Occurrences)

Acronyms
NOTOC - Notification to Captain
ULD - Unit Load Device

Competency Unit 6 Unloading of Cargo / Baggage

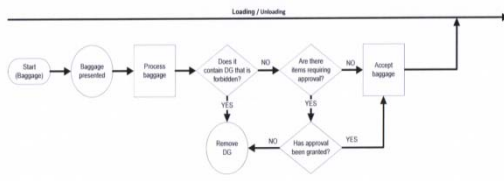


M 5 Accepting passenger and crew baggage and loading /unloading of baggage (CU5+CU7)



Minimum competence framework

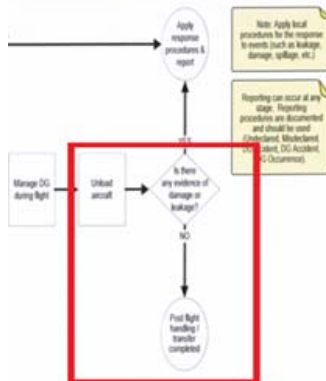
Competency Unit 5 Accepting Passenger and Crew Baggage



Note: Apply local procedures for the response to events (such as baggage damage, spillage, etc.)

Reporting can occur at any stage. Reporting procedures are documented and should be used (Incident, Malfunction, DG Incident, DG Accident, DG Occurrence).

Competency Unit 6 Unloading of Cargo / Baggage



- CE 5.1 Process baggage**
 - PC 5.1.1 Identify forbidden dangerous good
 - PC 5.1.2 Apply approval requirements
- CE 5.2 Accept baggage**
 - PC 5.2.1 Apply operator requirements
 - PC 5.2.2 Advise pilot in command

CU7 Unload /Cargo /Baggage

- CE 7 Unload aircraft**
 - PC 7.1 Apply specific unloading considerations as applicable
 - PC 7.2 Check packages for indications of undeclared dangerous goods
 - PC 7.3 Check for damage and/or leakage
 - PC 7.4 Transport cargo/baggage to facility/terminal

Draft proposal: To add to new chapter 4, paragraph 4.2 (Training programmes), 4.2.1.

4.2.1 The employer must establish and maintain a dangerous goods training programme, **having as minimum one Training Module.**

Table 1-4. Content of training courses

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

† CATEGORIES

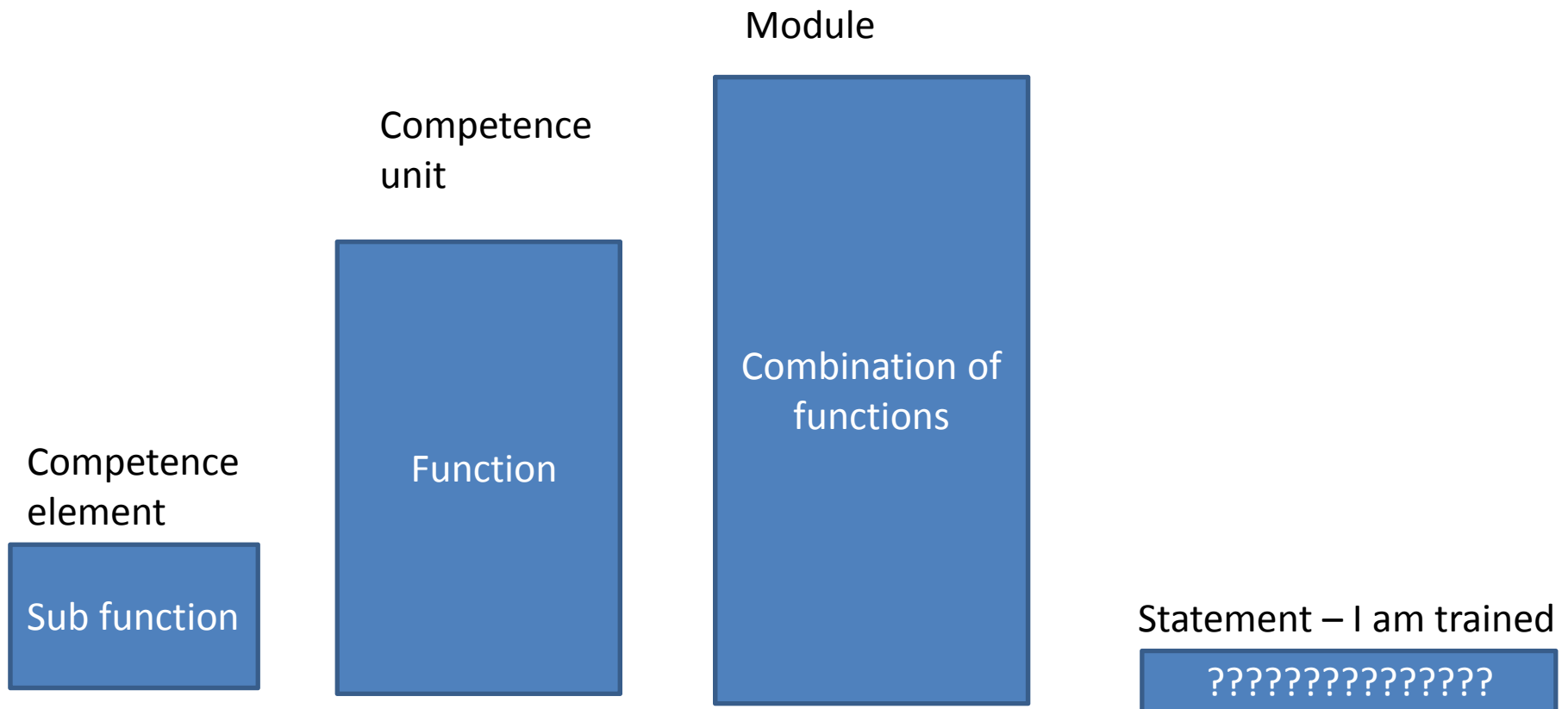
- 1— Shippers and persons undertaking the responsibilities of shippers
- 2— Packers
- 3— Staff of freight forwarders involved in processing dangerous goods
- 4— Staff of freight forwarders involved in processing cargo or mail (other than dangerous goods)
- 5— Staff of freight forwarders involved in the handling, storage and loading of cargo or mail
- 6— 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



Training Modules

M 1	Classifying dangerous goods and preparing dangerous goods shipment (CU1+CU2)
M 2	Processing/ accepting cargo (CU3)
M 3	Transporting cargo/baggage (CU6+CU7)
M 4	Managing cargo pre-loading and unloading of cargo (CU4+CU7)
M 5	Accepting passenger and crew baggage and loading/unloading of baggage (CU5+CU7)

Content of records of training ?



Thank you for attention.