Additional issues at DGP/25

Workshop on Lithium Batteries

18-19 April 2016

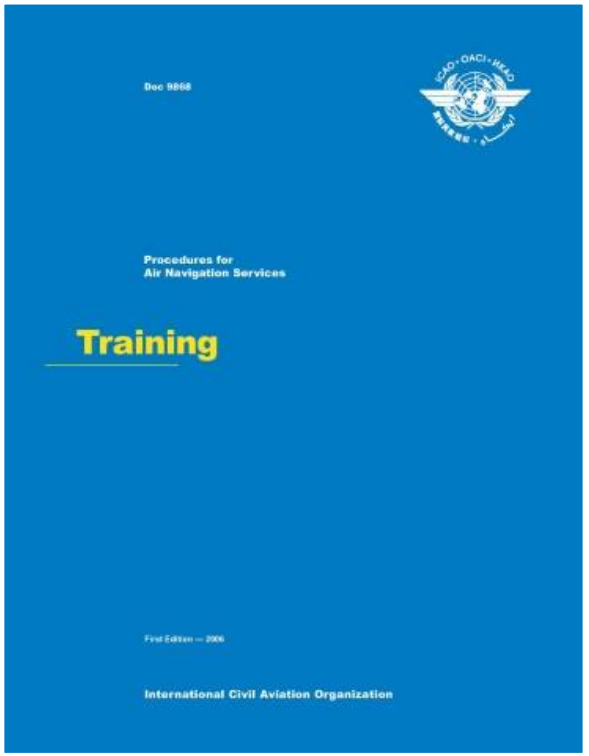
Nairobi, Kenya

Additional areas

- Applicability of Annex 18
  - Freight forwarders handling general cargo
  - Oversight of ALL entities involved in the transport chain
- Reporting
- Training

ICAO and Competency-Based Training

- *Procedures for Air Navigation Services — Training* (PANS-TRG, Doc 9868)
  - Published in 2006
- Multi-crew pilot license
- Aircraft maintenance personnel
- Dangerous Goods Panel:
  - Competency Framework for dangerous goods personnel
  - Competency Framework for Dangerous Goods State inspectors



Competency-Based Training

What is meant by competency?

Competency-Based Training

What is meant by competency?

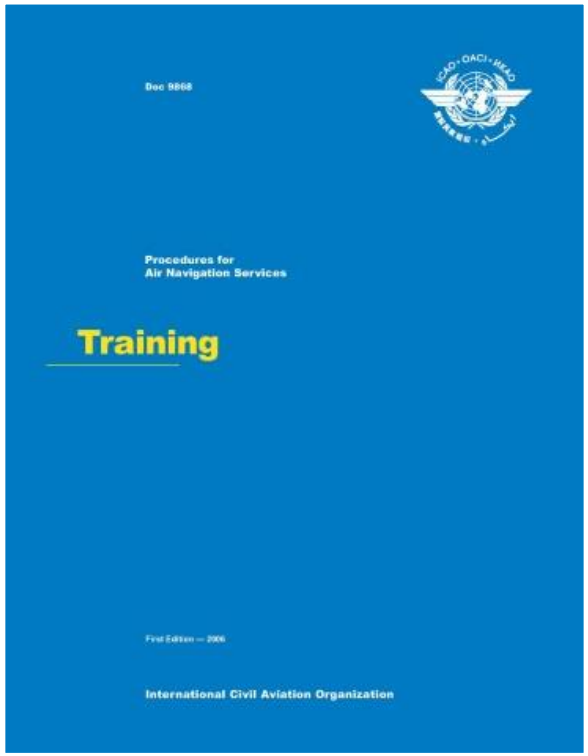
Competency. A combination of skills, knowledge and attitudes required to perform a task to the prescribed standard.

(*Procedures for Air Navigation Services — Training* (PANS-TRG, Doc 9868))

Performance

What is Competency Based Training and Assessment?

- Systemic approach
- Defined competencies
- Training based on competencies
- Performance standards
- Assessments
  - Competencies achieved?



(PANS-TRG, Chapter 2)

Competency Framework

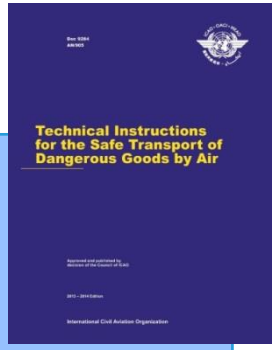
- Competency units
  - Discrete function
  - Contains competency elements
- Competency elements
  - Action
  - Triggering event
  - Terminating event
  - Defined limits
  - Observable outcome
- Performance criteria
  - Required outcome of competency elements
  - Criteria to judge if performance achieved

3.	PERFORM TAKE-OFF	
…		
3.2	Perform take-off roll	
	3.2.1	Applies take-off thrust
	3.2.2	Checks engine parameters
	3.2.3	Checks airspeed indicators
	3.2.4	Stays on runway centre line
…		
3.7	Manage abnormal and emergency situations	
	3.7.1	Identifies the abnormal condition
	3.7.2	Interprets the abnormal condition
	3.7.3	Performs the procedure for the abnormal condition

(PANS-TRG, Chapters 1 and 3 (Appendix 2))

Dangerous Goods Training

- Competency frameworks
  - Personnel involved in transporting dangerous goods
  - State employees involved in administration and oversight of dangerous goods regulations



4.4 COMPETENCY-BASED TRAINING AND ASSESSMENT

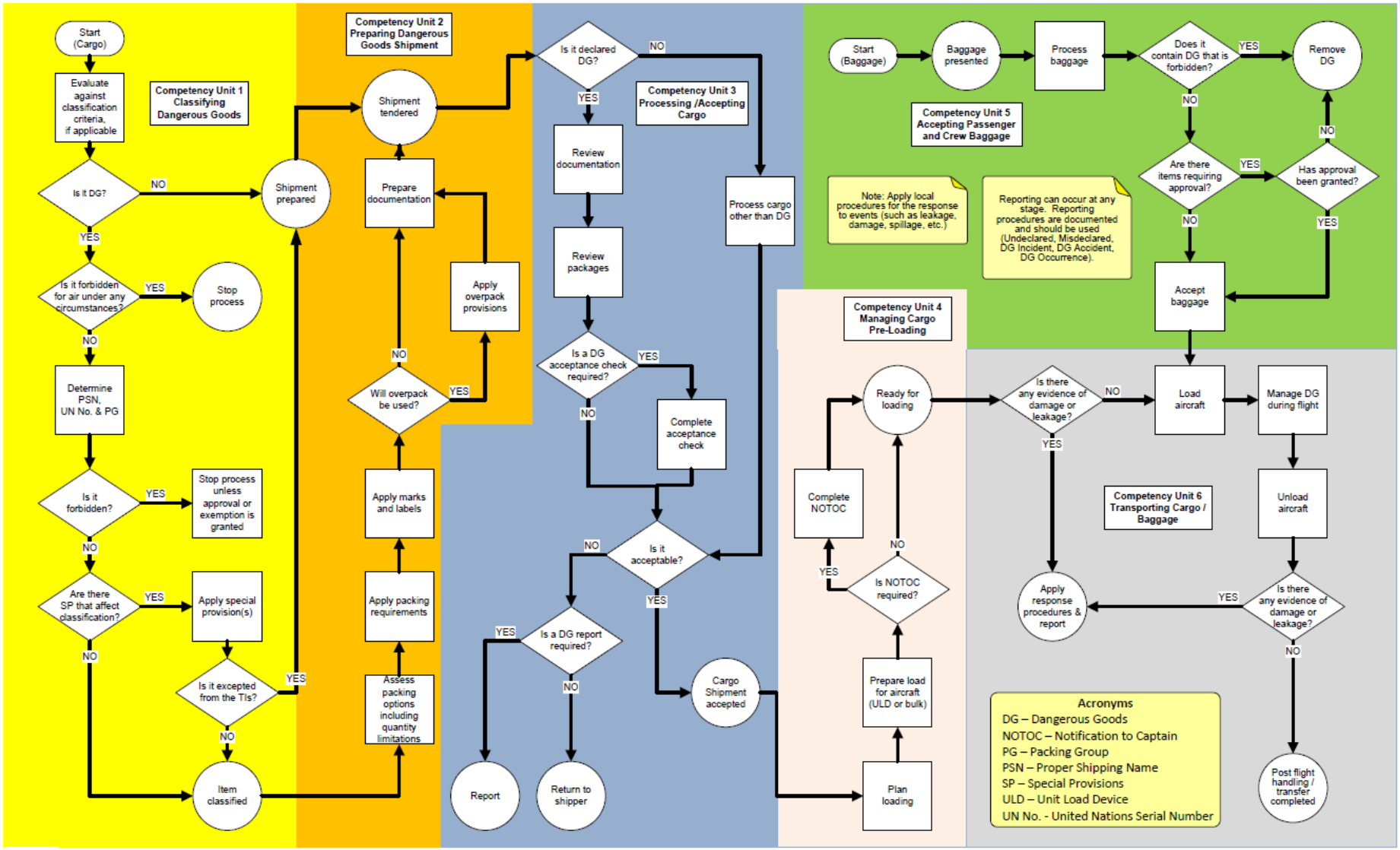
Competency-based training and assessment should be used in accordance with the general provisions contained in Chapter 2 of the Procedures for Air Navigation Services — Training (PANS-TRG, Doc 9868).

(Technical Instructions, Part 1;4.4)

COMPETENCY FRAMEWORKS FOR PERSONNEL INVOLVED IN TRANSPORTING DANGEROUS GOODS

Competency Units

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

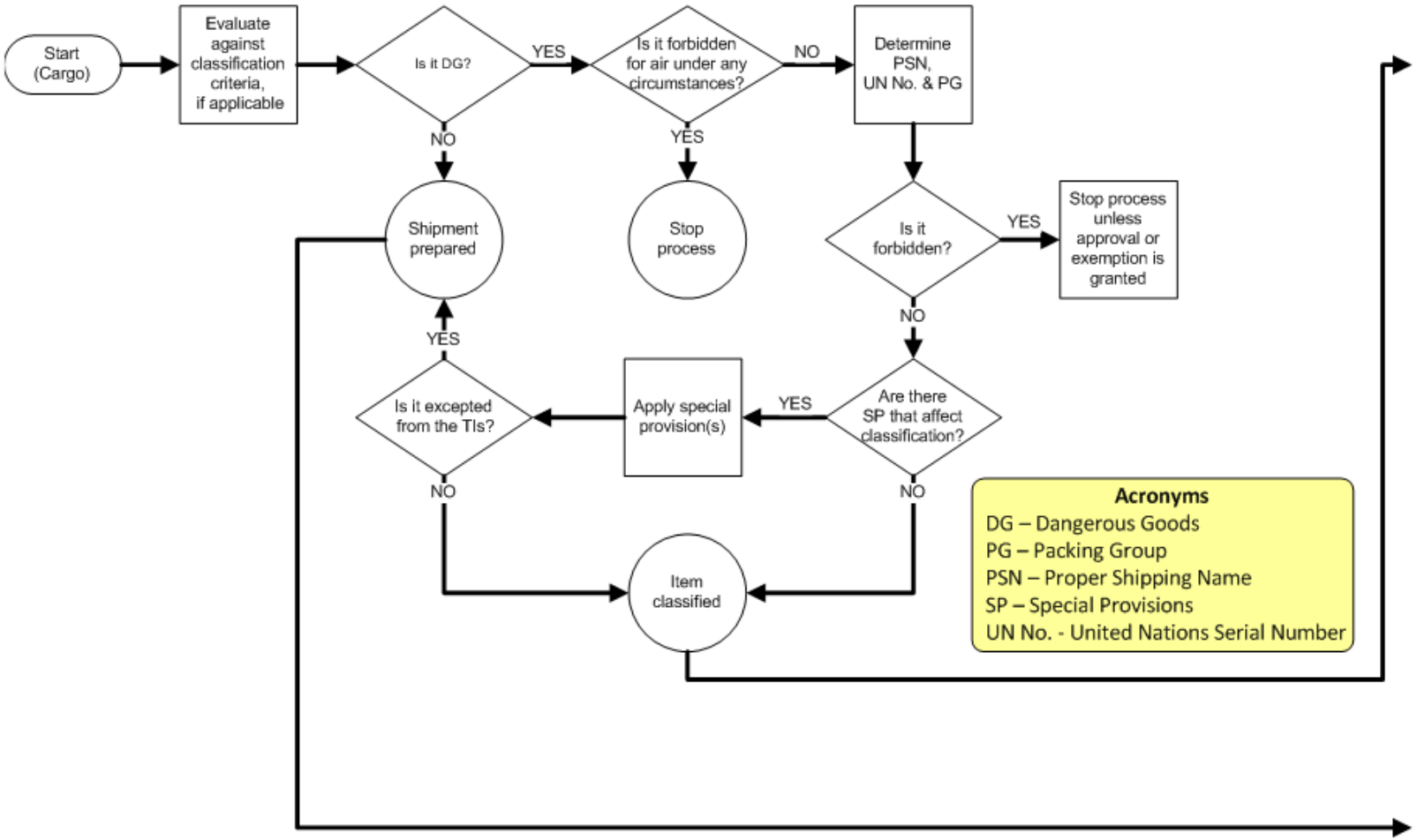

Start (Cargo)
Evaluate against classification criteria, if applicable
Competency Unit 1 Classifying Dangerous Goods
Is it DG?
NO
YES
Shipment prepared
Is it forbidden for air under any circumstances?
YES
Stop process
NO
Determine PSN, UN No. & PG
Is it forbidden?
YES
Stop process unless approval or exemption is granted
NO
Are there SP that affect classification?
YES
Apply special provision(s)
NO
Is it excepted from the TIs?
YES
NO
Item classified
Competency Unit 2 Preparing Dangerous Goods Shipment
Shipment tendered
Prepare documentation
Apply overpack provisions
Will overpack be used?
YES
NO
Apply marks and labels
Apply packing requirements
Assess packing options including quantity limitations
Is it declared DG?
NO
YES
Competency Unit 3 Processing /Accepting Cargo
Review documentation
Review packages
Process cargo other than DG
Is a DG acceptance check required?
YES
NO
Complete acceptance check
Is it acceptable?
NO
YES
Is a DG report required?
YES
NO
Report
Return to shipper
Cargo Shipment accepted
Competency Unit 4 Managing Cargo Pre-Loading
Ready for loading
Complete NOTOC
Is NOTOC required?
YES
NO
Prepare load for aircraft (ULD or bulk)
Plan loading
Start (Baggage)
Baggage presented
Process baggage
Competency Unit 5 Accepting Passenger and Crew Baggage
Does it contain DG that is forbidden?
YES
Remove DG
NO
Are there items requiring approval?
YES
Has approval been granted?
NO
YES
NO
Accept baggage
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, Misdeclared, DG Incident, DG Accident, DG Occurrence).
Is there any evidence of damage or leakage?
NO
YES
Load aircraft
Manage DG during flight
Competency Unit 6 Transporting Cargo / Baggage
Unload aircraft
Is there any evidence of damage or leakage?
YES
NO
Apply response procedures & report
Post flight handling / transfer completed
Acronyms
DG – Dangerous Goods
NOTOC – Notification to Captain
PG – Packing Group
PSN – Proper Shipping Name
SP – Special Provisions
ULD – Unit Load Device
UN No. - United Nations Serial Number

Competency Unit 1 — Classifying dangerous goods

Competency Elements

- Evaluate substances or articles against classification criteria, as applicable
- Determine dangerous goods description
- Review special provisions

Competency Unit 1
Classifying Dangerous Goods



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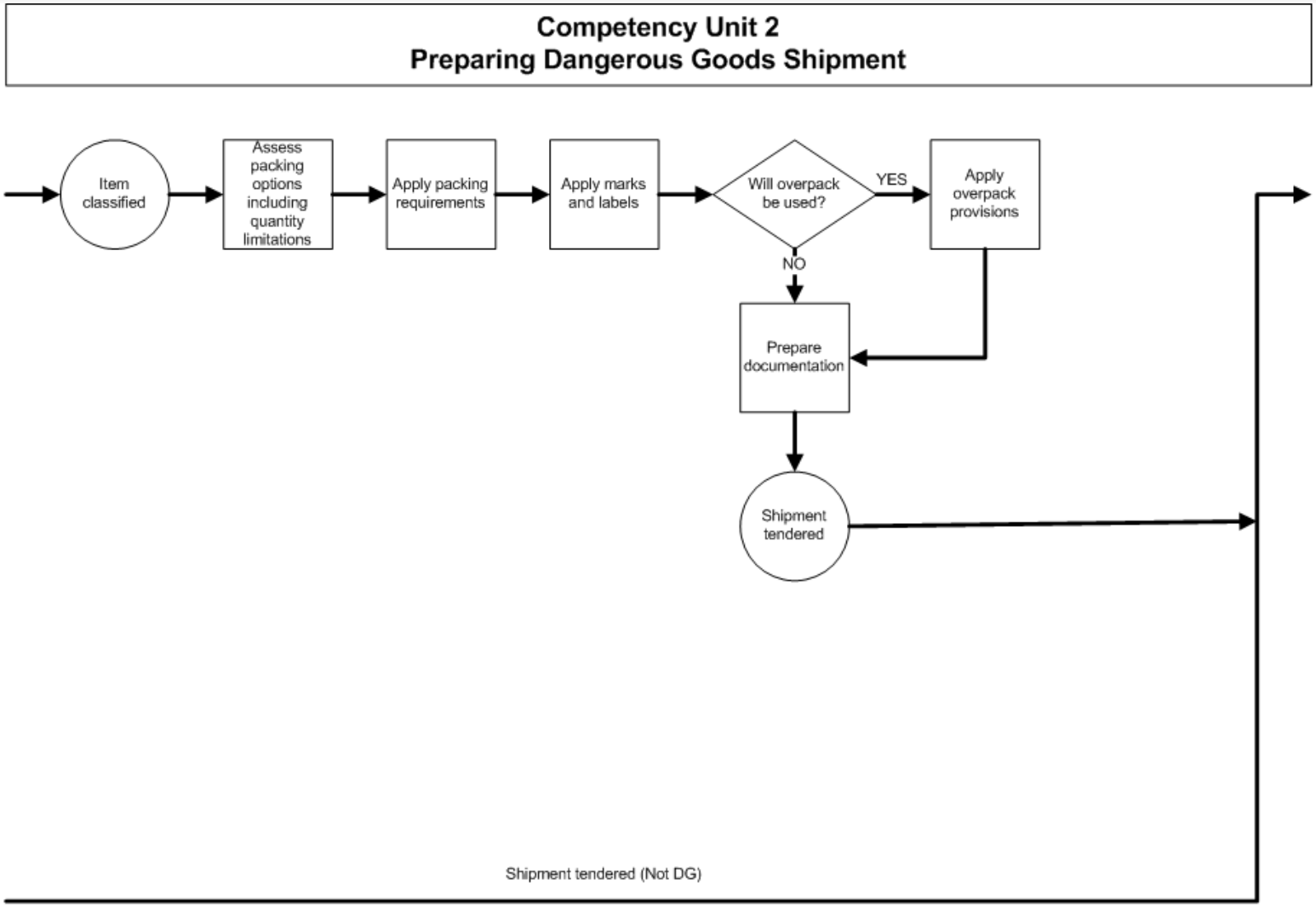
Competency Unit 2 — Preparing dangerous goods shipment

Competency Elements

- Assess packing options including quantity limitations
- Apply packing requirements
- Apply marks and labels
- Determine if overpack can be used
- Prepare documentation


Competency Unit 2
Preparing Dangerous Goods Shipment
Item classified
Assess packing options including quantity limitations
Apply packing requirements
Apply marks and labels
Will overpack be used?
YES
Apply overpack provisions
NO
Prepare documentation
Shipment tendered
Shipment tendered (Not DG)
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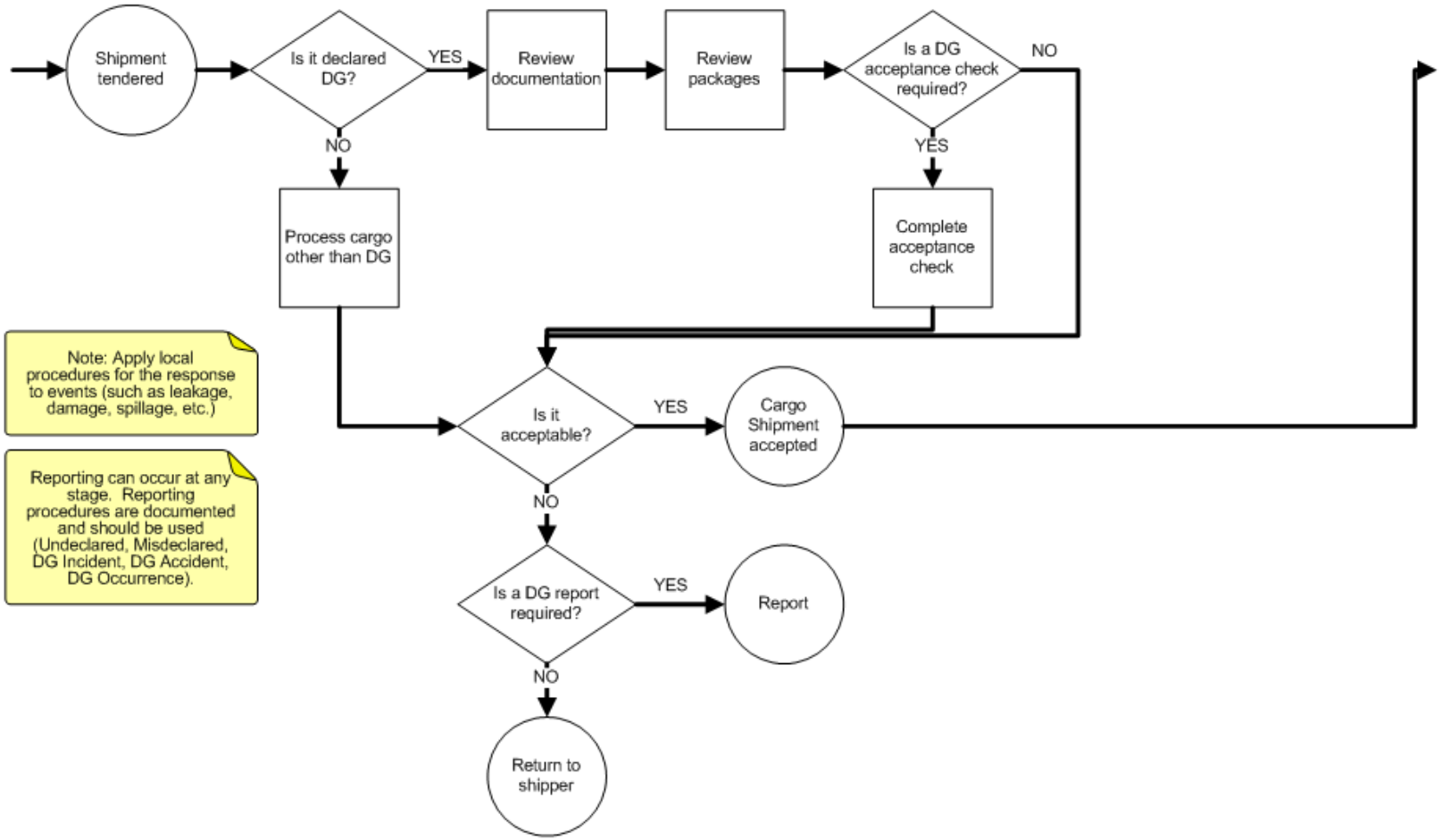
Competency Unit 3 — Processing/accepting cargo

Competency Elements

- Review documentation
- Review package(s)
- Complete acceptance procedures
- Process/accept cargo other than dangerous goods

Competency Unit 3
Processing /Accepting Cargo



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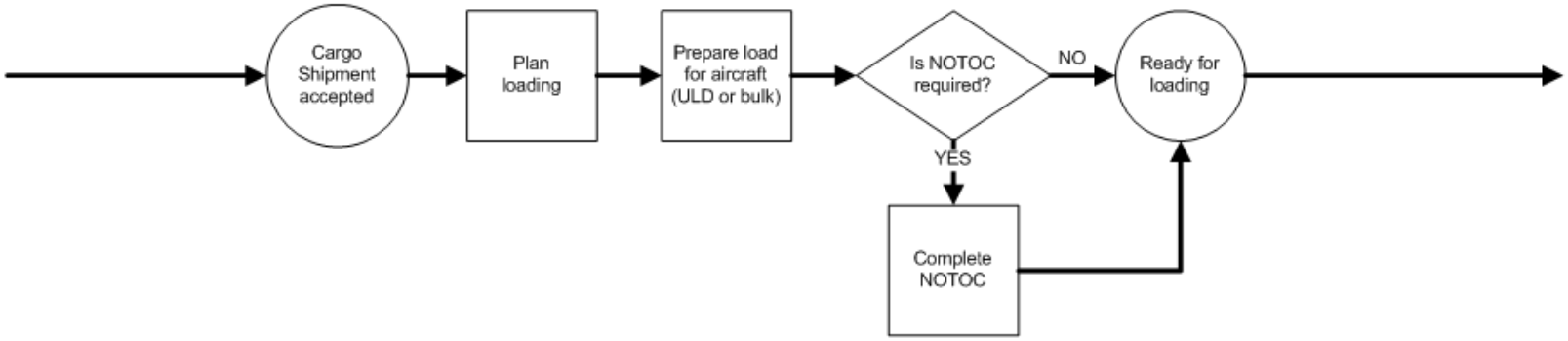
Competency Unit 4 — Managing cargo pre-loading

Competency Elements

- Plan loading
- Prepare load for aircraft
- Issue NOTOC

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, Misdeclared, DG Incident, DG Accident, DG Occurrence).

Acronyms
NOTOC – Notification to Captain
ULD – Unit Load Device

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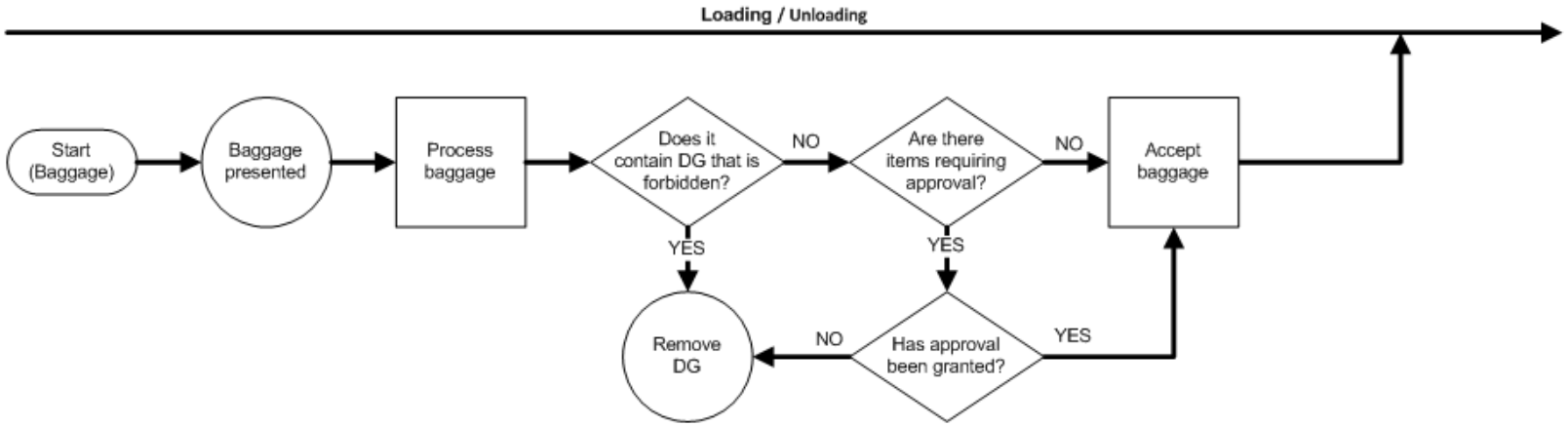
Competency Unit 5 — Accepting passenger and crew baggage

Competency Elements

- Process baggage
- Accept baggage

Competency Unit 5
Accepting Passenger and Crew Baggage



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, Misdeclared, DG Incident, DG Accident, DG Occurrence).

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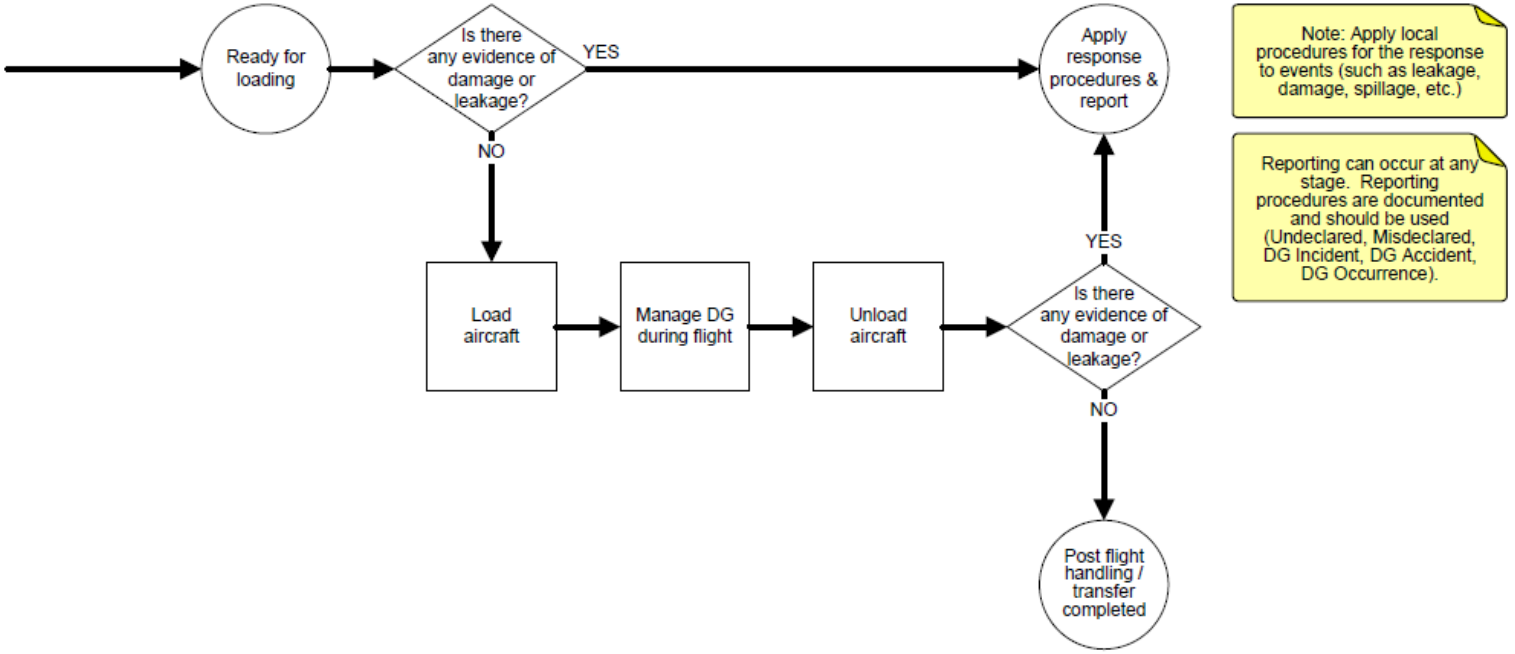
Competency Unit 6 — Transporting cargo/baggage

Competency Elements

- Load aircraft
- Manage dangerous goods during flight
- Unload aircraft

Competency Unit 6
Transporting Cargo / Baggage



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COMPETENCY FRAMEWORK FOR DANGEROUS GOODS STATE EMPLOYEES

Competency Unit 1 — Support the development and implementation of a State dangerous goods programme

Competency Elements

- Develop regulations
- Develop policies and procedures
- Develop tools to support the implementation of national regulations

Competency Unit 2 — Approve an operator's dangerous goods system

Competency Elements

- Approve dangerous goods component of the operations manual
- Approve dangerous goods training programme

Competency Unit 3 — Conduct oversight of dangerous goods operations

Competency Elements

- Prepare for inspection
- Conduct inspection
- Finalize inspection

Competency Unit 4 — Evaluate dangerous goods accidents, incidents and other occurrences

Competency Elements

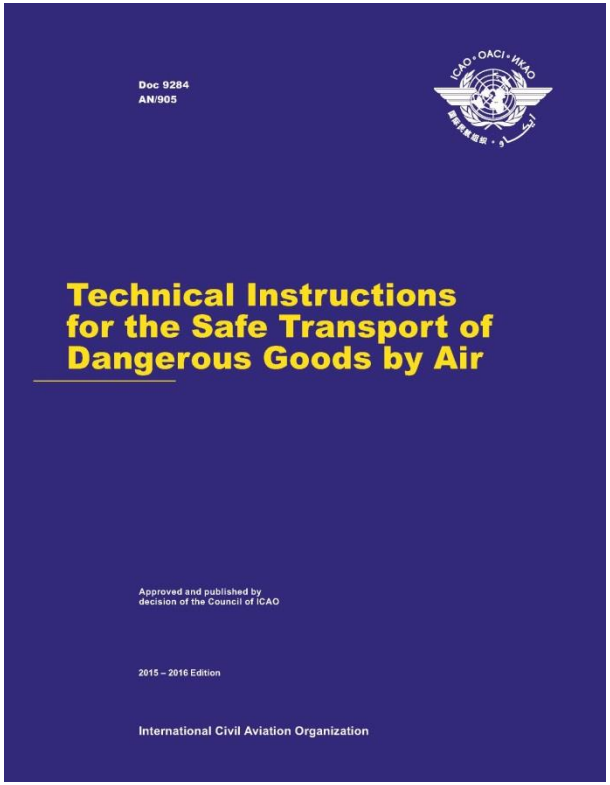
- Conduct investigation
- Take corrective/appropriate action

IMPLEMENTATION

Dangerous Goods Personnel

(revisions to Technical Instructions)

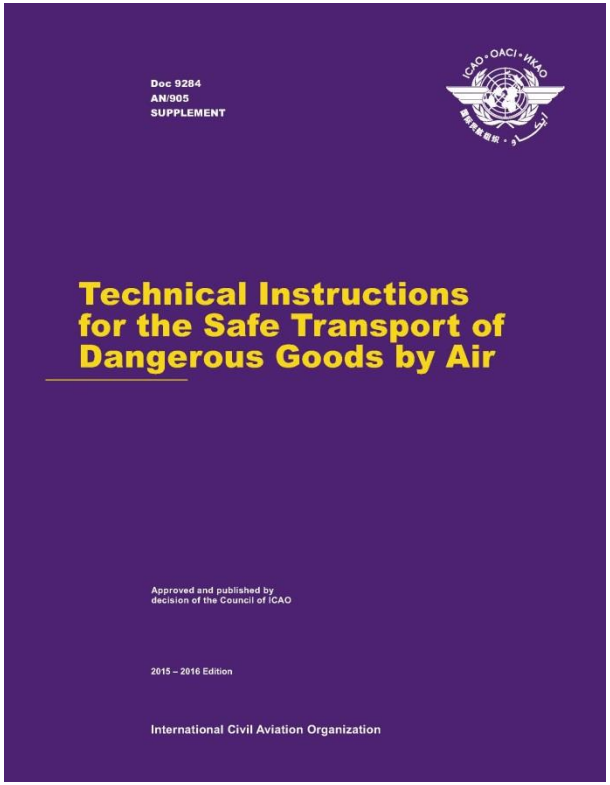
- 2017-2018 Edition
  - New Attachment 4
    - Revised training provisions (information only)
    - Competency framework
    - Guidance on competency based training
- 2019-2020 Edition
  - Part 1;4
    - Revised training provisions (mandatory)
  - Attachment 4
    - Competency framework
    - Guidance on competency based training



State Employees

(revisions to Supplement to Technical Instructions)

- 2017-2018 Edition
  - Competency framework for State employees
  - Guidance on competency based training for State employees



ICAO

THANK YOU