



# DANGEROUS GOODS SEMINAR 2022

11 November 2022

# AGENDA

- Highlight of Significant changes to IATA DGR 64<sup>th</sup> Edition
- Highlight of HAFFA lithium batteries best practice
- Case sharing
- Cargo Agent Operation Program (CAOP)



# SIGNIFICANT CHANGES TO IATA DGR 64<sup>TH</sup> EDITION



# SIGNIFICANT CHANGES TO IATA DGR 64<sup>TH</sup> EDITION

## Limitations

### 2.6—DANGEROUS GOODS IN EXCEPTED QUANTITIES

- i. Paragraph 2.6.5.1 has been revised to clarify that a package containing dangerous goods in excepted quantities may also contain goods not subject to the Regulations

## Classification

### 3.9.2.6.1— CLASSIFICATION

- i. The requirements of the lithium battery test summary have been revised to remove the need for the test summary for button cells installed in equipment.

# SIGNIFICANT CHANGES TO IATA DGR 64<sup>TH</sup> EDITION

## Identification

### 4.2 – LIST OF DANGEROUS GOODS

- i. Change of the maximum net quantity per package on Cargo Aircraft Only for UN 2794, **Batteries, wet, filled with acid**, UN 2795, **Batteries, wet, filled with alkali** and UN 3292, **Cells, containing sodium** from “No limit” to 400 kg. These articles must be packed in a UN specification packaging, for which the limit is 400 kg.

### 4.4 – SPECIAL PROVISIONS

- i. Amendment to A176 specifying that when metal hydride storage systems are being offered that the special provision number must be noted in the authorization column of the Shipper's Declaration

# SIGNIFICANT CHANGES TO IATA DGR 64<sup>TH</sup> EDITION

## Packing

### PACKING INSTRUCTIONS

- i. PI 950, PI 951 and PI 952—
  - i. vehicles are forbidden for transport if lithium batteries in the vehicle are damaged or defective.
  - ii. vehicles that contain pre-production prototype lithium cells or batteries or low production runs of lithium cells or batteries that may be shipped on a cargo aircraft under an approval from the appropriate authority of the State of origin and the State of the operator.
- ii. PI 965 and PI 968—
  - i. each package prepared in accordance with Section IB must be capable of withstanding the 3 m stack test as applies to limited quantity packages.
- iii. PI 966, PI 967, PI 969 and PI 970—Section II
  - i. when packages are placed into an overpack that the packages must be secured in the overpack and the intended function of each package must not be impaired by the overpack. This aligns to the general requirements for overpacks specified in 5.0.1.5.

# SIGNIFICANT CHANGES TO IATA DGR 64<sup>TH</sup> EDITION

## Marking and Labelling

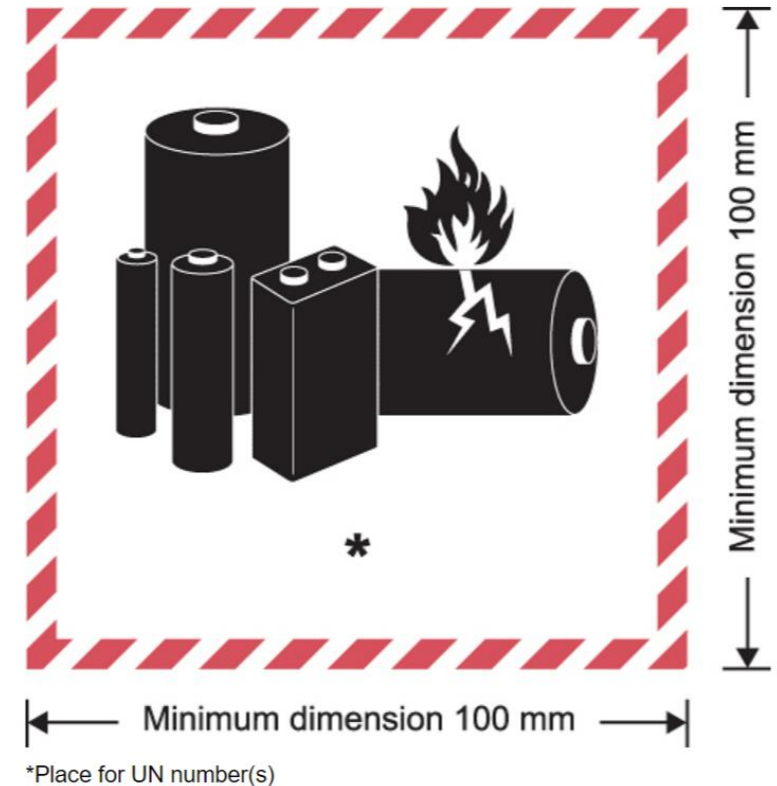
### 7 — MARKING AND LABELLING

- i. 7.1.5.5 — The lithium battery mark has been revised to remove the requirement for a telephone number to be provided on the mark
- ii. A transition period until 31 December 2026, during which time the mark shown in the 63<sup>rd</sup> edition of the DGR may continue to be used

## Documentation

### 8 — DOCUMENTATION

- i. 8.2.1 — The transitional period for the dangerous goods statement on the air waybill has been extended by a further two years until 31 December 2024

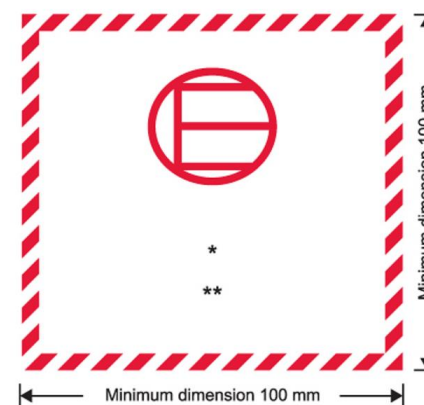
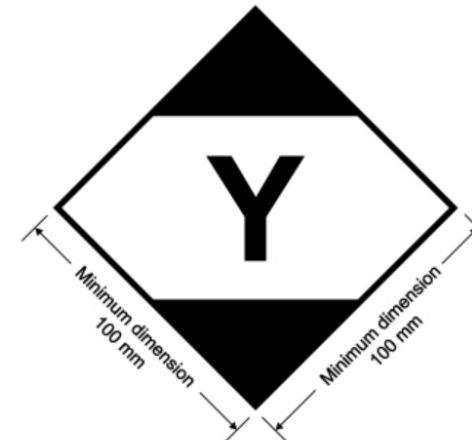


# SIGNIFICANT CHANGES TO IATA DGR 64<sup>TH</sup> EDITION

## Handling

### 9 — HANDLING

- i. 9.3.7—The provisions for replacements of labels on packages where the labels are found to be lost, detached or illegible after acceptance have been revised to include a requirement for marks, such as the excepted quantity mark and limited quantity mark to be replaced by the operator.





# SIGNIFICANT CHANGES TO IATA DGR 64<sup>TH</sup> EDITION

## Appendix H

- i. The guidance material on development and implementation of competency-based training for dangerous goods has been removed from the DGR and is now posted on the IATA website as a stand-alone document, [www.iata.org/dangerousgoods](http://www.iata.org/dangerousgoods).





# HAFFA LITHIUM BATTERIES BEST PRACTICE



# HIGHLIGHTS OF HAFFA LITHIUM BATTERY BEST PRACTICE

## Documentation / Packaging & Labelling / Packing Requirements

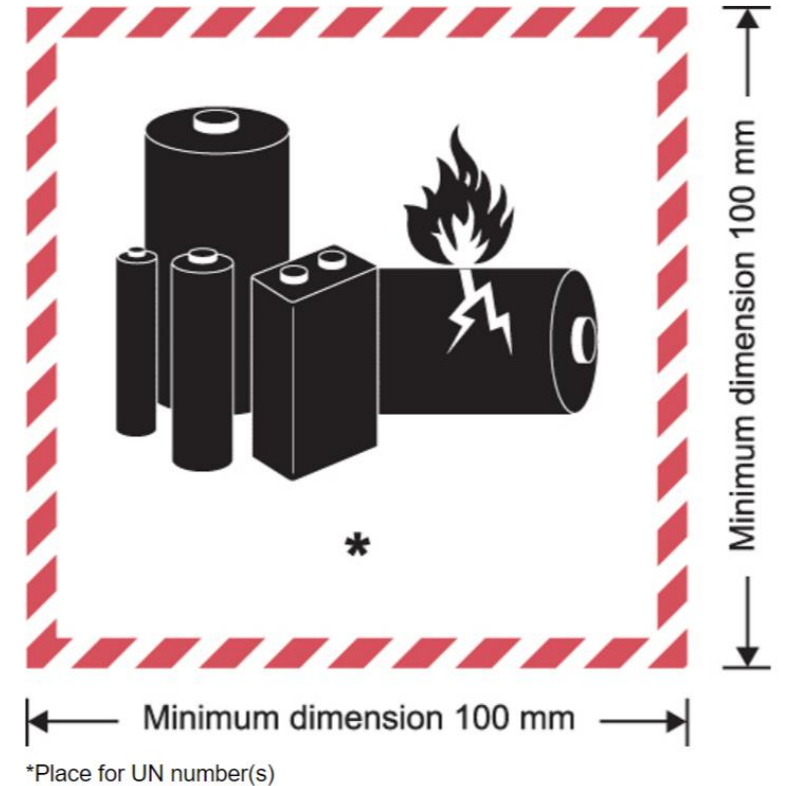
- The statement “Dangerous goods as per attached Shipper's Declaration” or “Dangerous goods as per attached DGD” as shown in the 61st Edition of IATA DGR may continue to be used until 31 December 2024

| Item/UN/Section  | UN3480 & UN3090  |   |  | UN3481 & UN3091                              |   |
|--|--|---|--|--|---|
|  | Section IA   | Section IB  | Section II   | Section I                                    | Section II  |
| <b>Documentation</b>                                   |  |   |  |  |   |
| Shipper's DGD <sup>1</sup> form                        | ✓  | ✓   | X  | ✓  | X   |
| Information indicated in “Handling Information” in AWB | 1. Dangerous Goods as per associated DGD <sup>2</sup><br>2. Cargo Aircraft Only or CAO | 1. Dangerous Goods as per associated DGD<br>2. Cargo Aircraft Only or CAO | 1. Lithium ion / metal batteries in compliance with section II of PI965 / 968<br>2. Cargo Aircraft Only or CAO<br>(This information should be shown in “Nature & Quantity of Goods” Box) | <b>Dangerous Goods as per associated DGD</b> | Lithium ion batteries in compliance with section II of PI966 / 967 or<br>Lithium metal batteries in compliance with section II of PI969 / 970<br>(This information should be shown in “Nature & Quantity of Goods” Box) |

# HIGHLIGHTS OF HAFFA LITHIUM BATTERY BEST PRACTICE

## Lithium battery mark for Section IB and II

- The requirement of telephone number has been removed
- The mark illustrated in Figure 7.1.C of the 63<sup>rd</sup> edition of IATA DGR may continue to be used until 31<sup>st</sup> December 2026





# CASE SHARING



# CASE 1

## Undeclared shipment – e-Commerce



### **UN3481 – Lithium-ion batteries contained in equipment**

This shipment was found with undeclared lithium batteries contained in equipment during x-ray screening at cargo terminal. Shipment contains a handheld dust mite vacuum cleaner.

### **Goods Description**

Hand push sweepers vacuum cleaner

### **Mitigation**

1. Cargo agent to arrange random open box check and x-ray screenings
2. Shipper to perform random check on package segregation accuracy

# CASE 2

## Improper handling



### UN3082 – Environmentally hazardous substance, liquid, n.o.s (Benzyl Benzoate)

Leakage was found from one of the jerricans in overpack during build up in warehouse. It was found that there were some protruded nails on the wooden spreader which has damaged the jerrican and led to leakage.

### Goods Description

Consolidated shipment details as per attached cargo manifest

### Mitigation

1. Shipper to improve quality of packing material
2. Shipper to check packing material to confirm no sharp objects are present before it's used for shipment packing

# CASE 3

## Mis-declared shipment – e-Commerce



### UN3481 – Lithium ion batteries packed with equipment

A fire incident took place during breakdown of shipment in warehouse. Some carton boxes dropped off from the pallet and after that, smoke and fire emerge from one of the dropped boxes.

### Goods Description

LED RGB Light, Data Cable

### Mitigation

1. Training on proper handling

\*If a package containing lithium batteries falls on the ground after acceptance, the concerned package shall be placed in an isolated area inside the warehouse. At least after 3-hour of observation, if there is no irregularity (e.g. does not emit any heat or smoke) from the package, it can be planned for continue transportation.



# CASE 4

## Improper handling



### **UN1197 – Extracts, flavouring, liquid**

Heavy wet damaged and leakage found on a fibreboard box upon breakdown in warehouse. It is caused by Insufficient absorbent and cushioning materials to protect inner packaging. CAO label peeled off from outer packaging due to leakage.

### **Good Description**

Consolidation cargo as per attached manifest

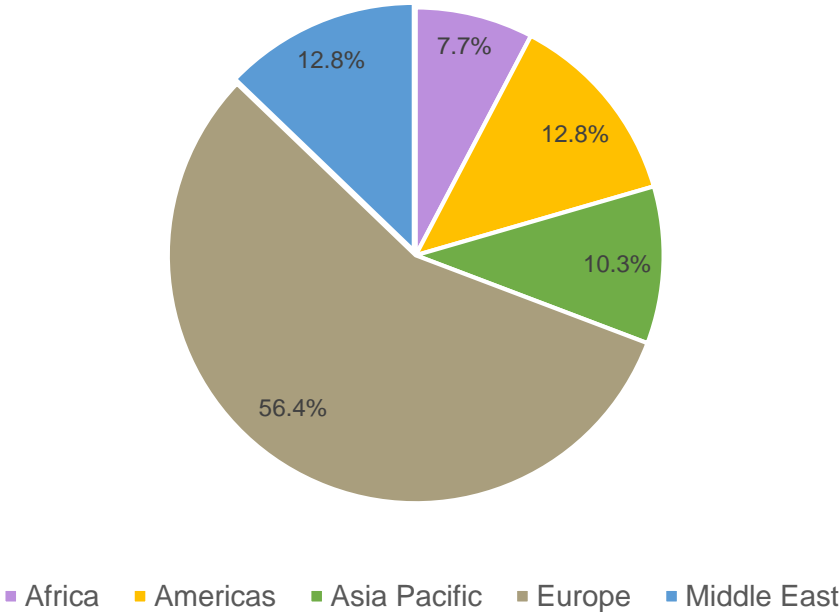
### **Mitigation**

1. Change inner packing material to aluminum.
2. Place additional absorbent and cushioning materials to prevent inner packaging from damage during transportation.

# UN/MIS-DECLARED LITHIUM BATTERY INCIDENTS SUMMARY (HKG 2019-2022)

| Goods Description on MAWB   |   |
|---|---|
| <p><u>CONSOL SHIPMENT AS PER CARGO MANIFEST ATTACHED **W/O BATTERY, NOT RESTRICTED**</u> on MAWB and "Remote control helicopter model accessory <u>*W/O BATTERY, NOT RESTRICTED</u></p> <p><u>ENDOSCOPE CAMERA SYSTEM (WITHOUT BATTERY) (NOT RESTRICTED) (NO MAGNETITE)</u></p> | <p>SEATCOVER, GAME MACHINE, RING, SUNSCREEN (<u>NOT RESTRICTED</u>), HAIR CARE POWDER, CONTACT LENS SOLUTION, LIPSTICK, GEL POLISH, ESSENTIAL (BERGAMOT) OIL (<u>NOT RESTRICTED</u>) NO E/L REQUIRED"</p> |

Shipment destination by region





# CARGO AGENT OPERATION PROGRAM (CAOP)



# CAOP - OBJECTIVES & 5 KEY ELEMENTS

- OBJECTIVES**
1. Drive air safety and security outcomes
  2. Mitigate risks of e-commerce hidden DG, mis-declared and undeclared Li-Ba shipments and build up irregularities

## 5 KEY ELEMENTS



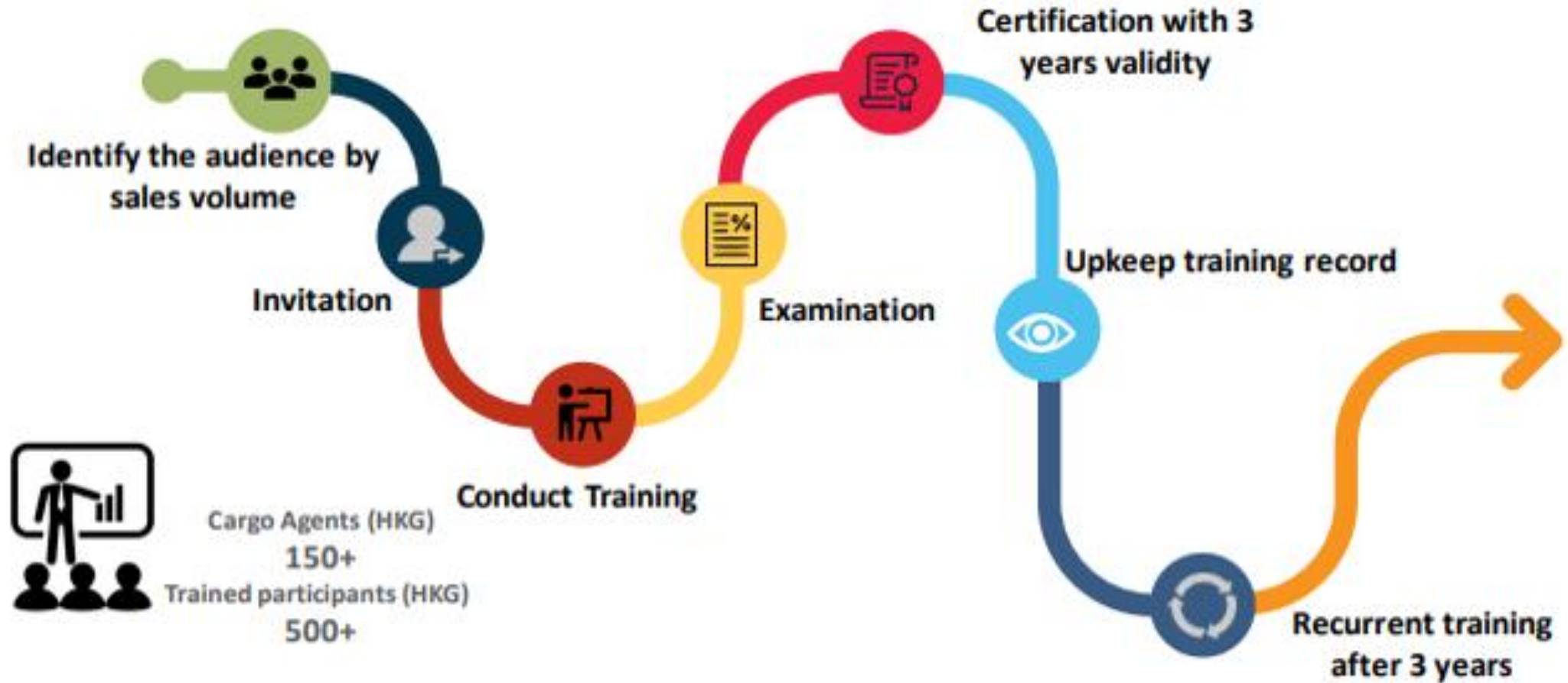
# MANUAL – CARGO AGENT TRAINING MANUAL

- **Cargo Agent Training Manual (CATM)** is a consolidated reference upload in cathaypacificcargo.com which enable the cargo agent to understand the CX operation requirements including changes in regulatory requirements.
- **Watch List** - Provide a list of shippers/agents under embargo & mandatory X-ray screening status in cathaypacificcargo.com

The screenshot displays the Cathay Pacific Cargo website interface. At the top, a dark green header contains the logo and navigation links: "Welcome upstreamadmin (439) , Logout", "Contact Us", "繁體中文", and "简体中文". A search bar is located on the right. Below the header, a horizontal menu lists: "Home", "Manage Your Shipment", "Products & Solutions", "Help & Support", "Member Area", and "Cargo Clan". The "Member Area" is expanded to show "Cargo Agent Operation Program" and "Program Updates". A left sidebar lists various user management options, with "Cargo Agent Operation Program" expanded to show "Program Updates", "Guidelines & Procedures", "Helping Tools", "Checklist & Forms", and "Notice To Agents". The main content area features a "Program Updates" section with three items: "CX Watch List" (with a "Confidential" watermark), "Program FAQ", and "Introduction" (with a "Download" link). Each item includes a small image and a "Download" button.



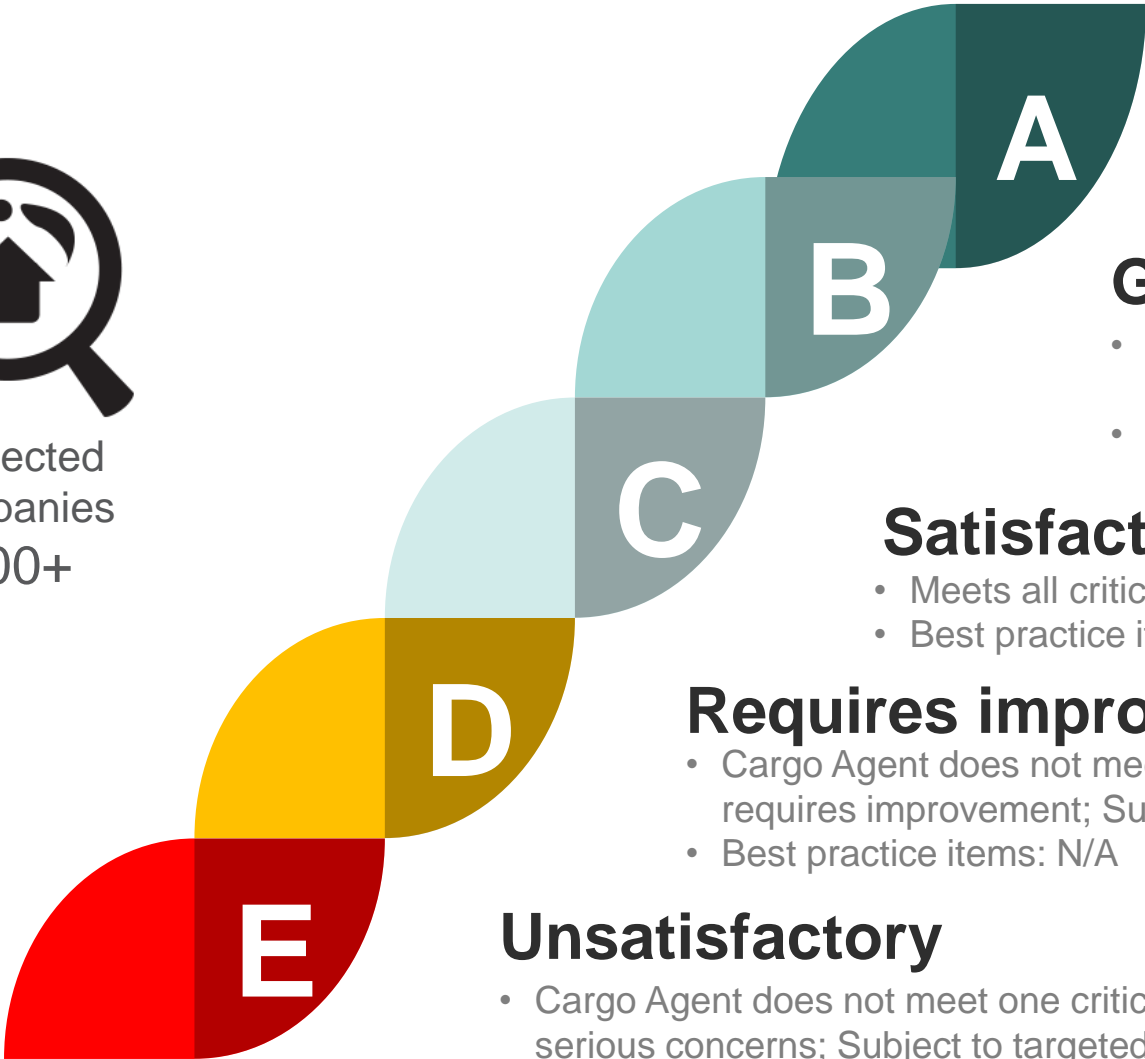
# TRAINING



# INSPECTION - SCORE RATING



Inspected companies  
300+



## Excellent

- Meets all critical requirements & demonstrates more than one value – added process
- Best practice items: > 3

## Good

- Meets all critical requirements & demonstrates a value – added process
- Best practice items: 1 – 3

## Satisfactory

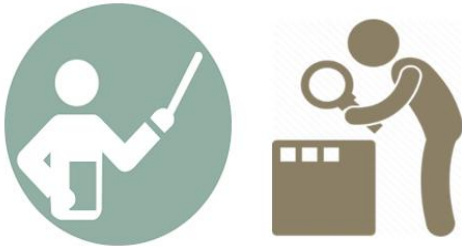
- Meets all critical requirements
- Best practice items: 0

## Requires improvement

- Cargo Agent does not meet one critical requirement, requires improvement; Subject to targeted screening
- Best practice items: N/A

## Unsatisfactory

- Cargo Agent does not meet one critical requirement, serious concerns; Subject to targeted screening
- Best practice items: N/A

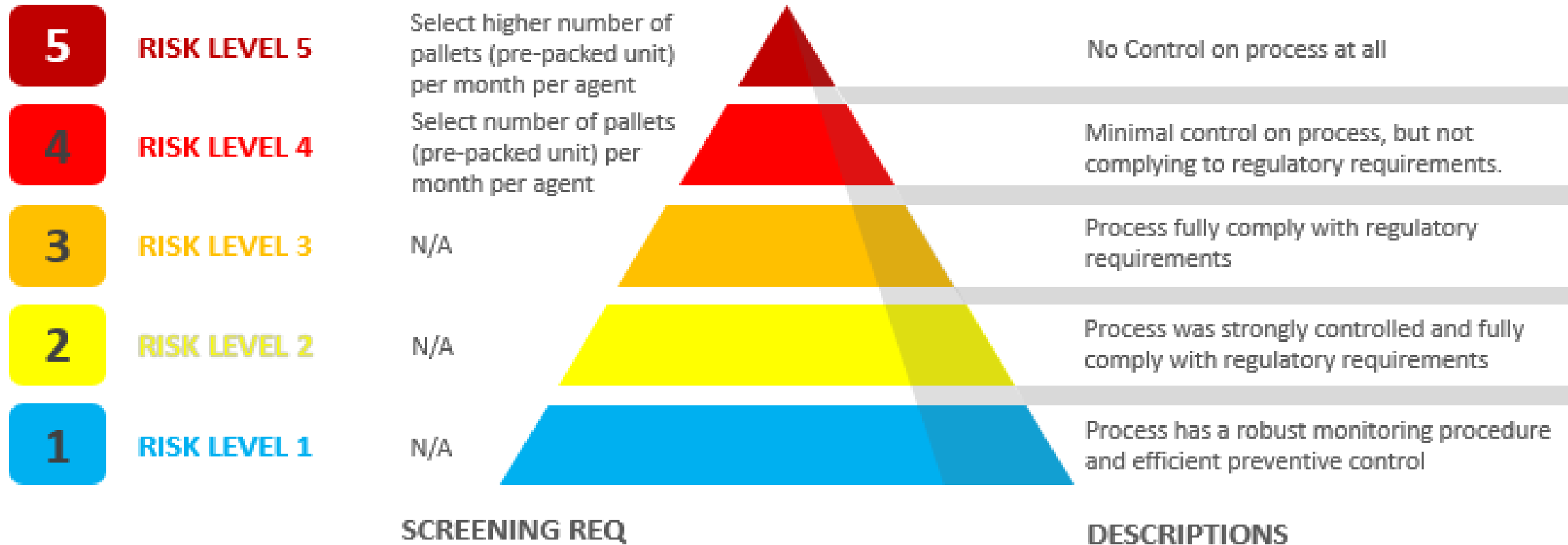


Trained, Qualified, Inspection



# RISK PROFILING

To describe a risk score and ranking to each agent requiring additional screening measures.





# PERFORMANCE MANAGEMENT



CAOP Extension Outports – 7 regions 36 stations 2022

# Q&A



THANK YOU

