



COMPLIANCE TRAINING
ONLINE.com

Cal/OSHA, DOT HAZMAT, EEOC, EPA, HIPAA, IATA, IMDG, TDG, MSHA, OSHA, Australia WHS, and Canada OHS Regulations and Safety Online Training

This document is provided as a training aid
and may not reflect current laws and regulations.

Be sure and consult with the appropriate governing agencies
or publication providers listed in the "Resources" section of our website.

www.ComplianceTrainingOnline.com



[Facebook](#)



[LinkedIn](#)



[Twitter](#)



[Google Plus](#)



[Website](#)

LITHIUM ION BATTERIES

Note:

- FedEx Express will not accept any item with an A183 Special Provision, even with a Competent Authority approval. [FX-04E]
- Lithium Batteries (Section IA/IB and Section II) must not be shipped in the same package with the following Hazard Classes/ Divisions:
1.4, 2.1, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 8, or 2.2 with a Cargo Aircraft Only Label. This includes All Packed in One and Overpacks. [FX-05C]
- Call FedEx customer service and ask for the International Hotline/ Specialist to check on commodity acceptability for international shipments

** Check: http://images.fedex.com/us/services/pdf/LithiumBatteries_Limitations.pdf

Lithium Ion

**Lithium Ion Batteries
UN3480, P.I. 965**

Section IA
Acceptable to dangerous goods locations where UN3480 is not prohibited.**
Cells greater than 20Wh; and Batteries greater than 100Wh

- Shipper's Declaration required in net weight KG.
- UN specification packaging required (PGII standards)
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Cargo Aircraft Only (CAO) label required (See Figure 5)
- Dangerous goods surcharge
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package:
CAO = 35kg

~ or ~

Section II

- Not accepted per IATA operator variation FX-05A; must be offered as Section IA or IB.

Section IB
Acceptable to dangerous goods locations where UN3480 is not prohibited.**
Cells equal to or less than 20Wh; and Batteries equal to or less than 100Wh

Shipper's Declaration required in net weight KG.

- Strong rigid outer packaging
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4)
- Cargo Aircraft Only (CAO) label required (See Figure 5)
- Dangerous goods surcharge
- IB on Shippers Declaration after packing Instruction
- State of charge (SoC) not exceeding 30% of their rated design capacity for cells and batteries without competent authority approval of both the state of origin and state of the operator

Limit per package:
CAO = 10kg

FedEx Express does not provide these DG Labels. Customers may order these labels from vendors, such as those at www.iata.org/labels.



Lithium Battery Class 9 Hazard Label
Figure 1



Class 9 Miscellaneous Dangerous Goods Hazard Label
Figure 2



Lithium Battery Mark
Figure 3

Shipper must add UN number(s). **AND**

Shipper must complete phone number portion of label.



Lithium Battery Label
Figure 4

Shipper must complete phone number portion of label. **AND**

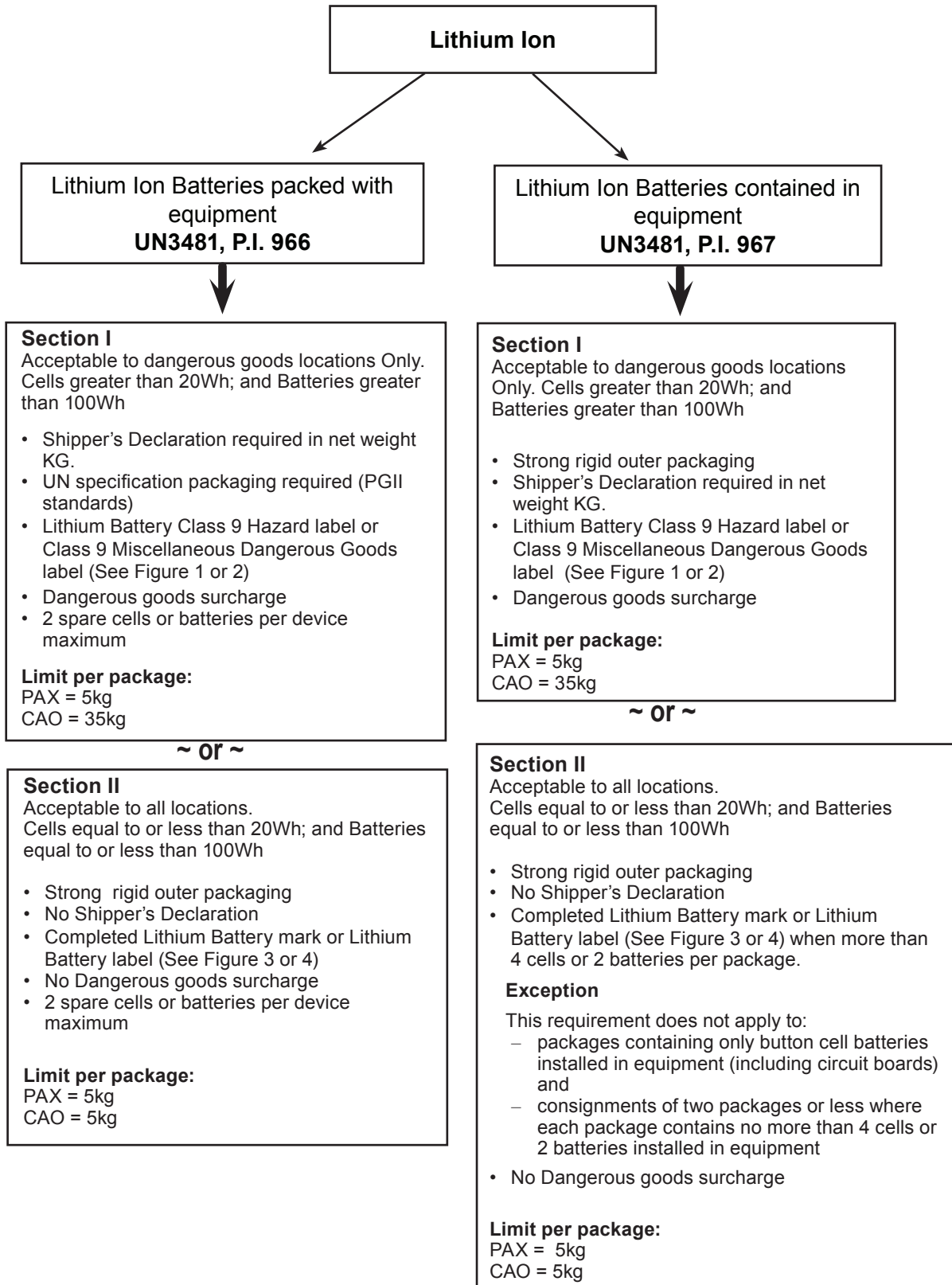
"Lithium ion battery" OR "Lithium metal battery" **AND**

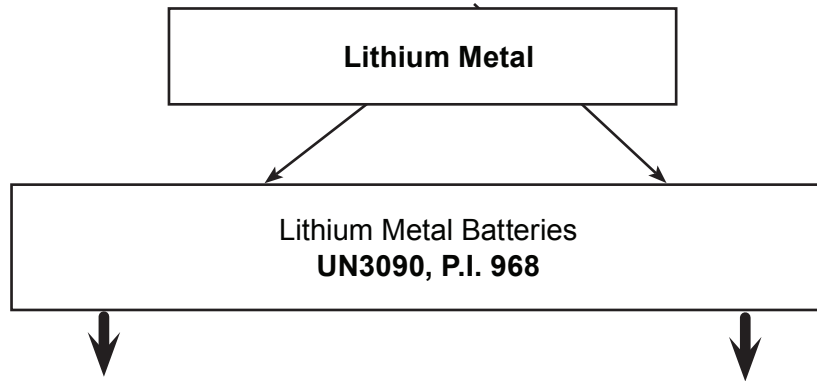
Mark the UN number(s) on the package adjacent to the label per FX-05D.

NOTE: FX-05D will have an effective date of July 1, 2017 in order to provide a 6 month transition.



Figure 5





Section IA
 Acceptable to dangerous goods locations where UN3090 is not prohibited.**
 Cells greater than 1g and Batteries greater than 2g

- Shipper's Declaration required in net weight KG.
- UN specification packaging required (PGII standards)
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Cargo Aircraft Only (CAO) label required (See Figure 5)
- Dangerous goods surcharge
- Shipper must be on Section I (IA/IB) preapproval list (FX-05B)

Limit per package:
 Must be on CAO = 35kg

Section IB
 Acceptable to dangerous goods locations where UN3090 is not prohibited.**
 Cells equal to or less than 1g; and Batteries equal to or less than 2g

- Shipper's Declaration required in net weight KG.
- Strong rigid outer packaging.
- Lithium Battery Class 9 Hazard label or Class 9 Miscellaneous Dangerous Goods label (See Figure 1 or 2)
- Completed Lithium Battery mark or Lithium Battery label (See Figure 3 or 4)
- Dangerous goods surcharge
- Shipper must be on Section I (IA/IB) preapproval list (FX-05B)
- IB on Shipper's Declaration
- Cargo Aircraft Only (CAO) label required (See Figure 5)

Limit per package:
 Must be CAO = 2.5kg

~ Or ~

Section II

- Not accepted per IATA operator variation FX-05A; must be offered as Section IA or IB.

FedEx Express does not provide these DG Labels. Customers may order these labels from vendors, such as those at www.iata.org/labels.



Lithium Battery Class 9 Hazard Label
Figure 1



Class 9 Miscellaneous Dangerous Goods Hazard Label
Figure 2



Lithium Battery Mark
Figure 3



Lithium Battery Label
Figure 4



Figure 5

Shipper must add UN number(s). **AND**

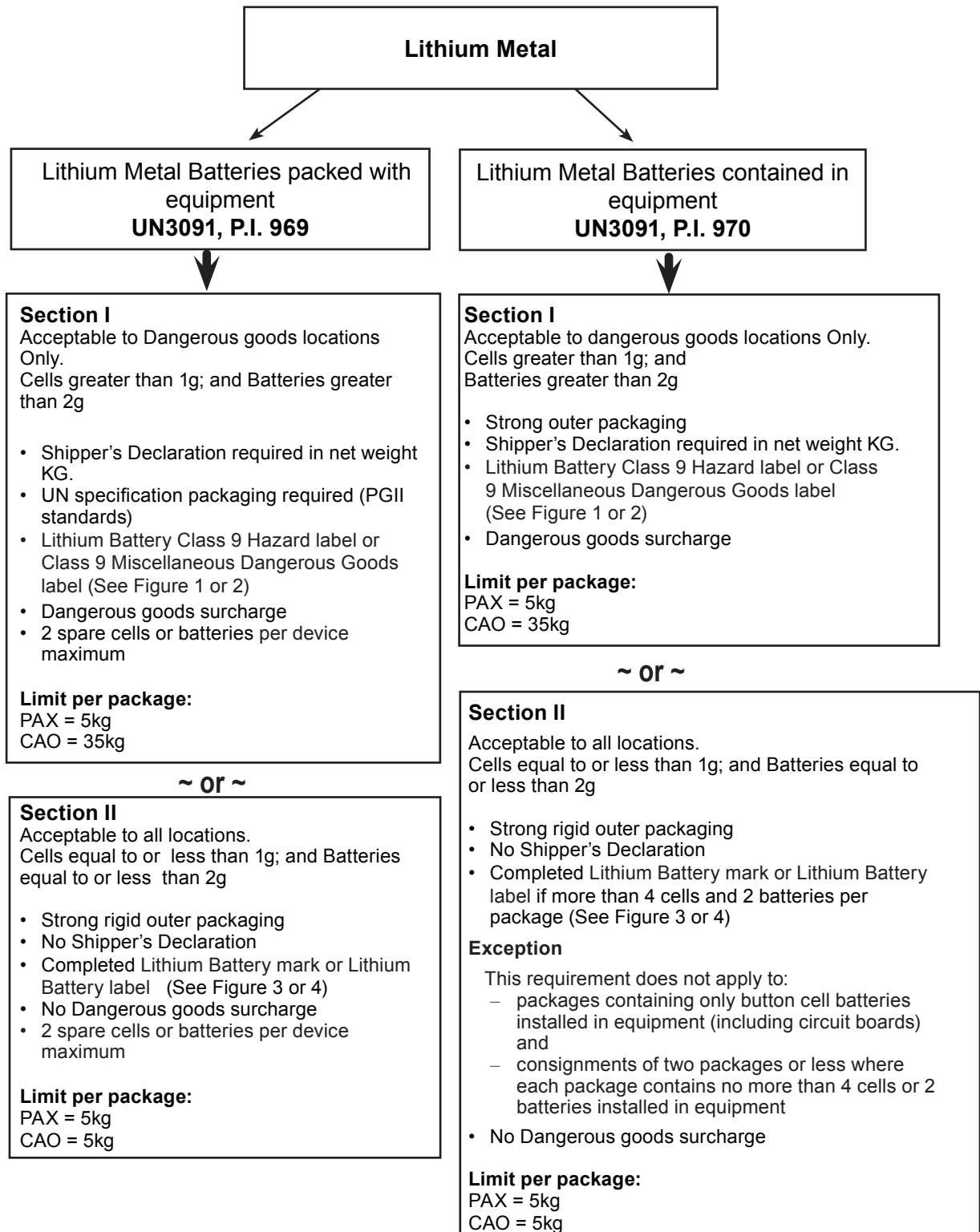
Shipper must complete phone number portion of label.

Shipper must complete phone number portion of label. **AND**

"Lithium ion battery" OR
 "Lithium metal battery" **AND**

Mark the UN number(s) on the package adjacent to the label per FX-05D.

NOTE: FX-05D will have an effective date of July 1, 2017 in order to provide a 6 month transition.



If you have questions please contact the Dangerous Goods/Hazardous Materials Hotline at (800) GOFEDX and press "81" or say dangerous goods. Press "4" to reach next available agent.

DISCLAIMER:

This guide is based upon the 2017 "IATA Dangerous Goods Regulations" and provides a general overview of lithium battery shipping requirements. It does not provide complete shipping information. Consult the packing instruction and all applicable Special Provisions for the product being shipped.

These materials are provided as a courtesy, to be used as guidelines to assist properly trained shippers. These materials do not alter, satisfy, or influence any governmental requirements. The contents of these materials are subject to change due to constant changes in government regulations. FedEx Express accepts no liability for loss or damage resulting from changes, errors, omissions, or misinterpretations of these materials.