

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety Washington, D.C. 20594

February 2, 2015

Attachment 12 - NAL Loadmaster Training

OPERATIONAL FACTORS

DCA13MA081

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A. NAL Loadmaster Training¹

National Airlines
Cargo Operations Manual
Ground Personnel Training

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Chapter 7: Ground Personnel Training

GENERAL

This chapter covers the Cargo Operations Training Program for non-crewmember Loading Supervisors, Ground Handling Personnel and Operations Controllers.

Training is required for any individual who:

- · Determine the serviceability of ULDs,
- Handle hazmat or frangible load requirements,
- Determine cargo loading system maintenance,
- Performs repair of ULDs and cargo restraint systems,
- Performs receiving inspections for contractor repaired ULDs,
- Are responsible for the operator's records requirements
- Supervise aircraft cargo handling, and
- Is responsible for ULD build-up and aircraft loading

SRR: 121.1003(b) SRR: 121.135(b)(2) SRR: 121.135(b)(17) SRR: 121.135(b)(25(j) SRR: 121.373

2. OBJECTIVE

This training is designed to provide the employee with the knowledge for understanding the basic functions of the cargo aircraft loading and unloading procedures.

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¹ Source: National Airlines Cargo Operations Manual..

3. CARGO OPERATIONS TRAINING MODULES

SEGMENT MODULE DESCRIPTION	In it ial LM	Recurrent	Initial CK LM	CK LM Recurrent	*Ground Handlers	*Ground Handlers Recurrent	**Ground Handlers	"Ground Handlers Recurrent	Load Planning	Load Planning Recurrent
A. Introduction to Handling Princip	les									
Review of FAA/NTSB Guidance	✓		✓		✓		✓		✓	
2. Systems Approach to Loading	✓		✓		✓		✓		✓	
3. Company Manual Interfaces	√		✓		√		√		√	
4. Where to Find Information	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5. Cargo Loading Policies	✓		✓		✓		✓		✓	
Carry On Baggage Program (Passenger OPS)	~		✓		✓					
B. Potential Hazards to Flight										
Damage to Aircraft	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2. Ground Handling Damage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3. Personal Safety	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4. Weight Control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5. Effects of Weight on Flight Performance	✓	✓	√	√	✓	✓	✓	✓	✓	✓
6. Weight and Balance Control Forms	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7. Scales	✓	✓	✓	√	✓	✓	✓	✓	✓	✓

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SEGMENT MODULE DESCRIPTION	Initial LM	LM Recurrent	Initial CK LM	CK LM Recurrent	*Ground Handlers	*Ground Handlers Recurrent	"Ground Handlers	"Ground Handlers Recurrent	Load Planning	Load Planning Recurrent			
C. Restraint/Loading Limitations													
1. Load Bearing	✓	✓	✓	✓					✓	✓			
2. Cargo Handling Systems	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
General Restraint Procedures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Calculating Restraints	✓	✓	✓	✓	✓	✓	√	✓	✓	✓			
D. Special Loads													
Oversized Loads	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
2. Motor Vehicles	✓	✓	✓	✓	✓	✓	√	✓	✓	√			
3. Animal Shipments	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
4. Military Cargo	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
E. Proper Load Configurations													
TSO C90(c)/TSO-C172, NAS 3610 Marking Requirements	✓	√	✓	✓	✓	✓	✓	✓	✓	✓			
2. Proper ULD Build Up	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Identifying Unserviceable ULD's, Pallets, Nets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Restraint Fitting Limitations	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
5. Deferral of Restraint Components	✓	✓	✓	✓			✓	✓	✓	✓			

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SEGMENT MODULE DESCRIPTION	InitialLM	LM Recurrent	Initial CK LM	CK LM Recurrent	*Ground Handlers	*Ground Handlers Recurrent	*Ground Handlers	"Ground Handlers Recurrent	Load Planning	Load Planning Recurrent
F. Hazmat - Cargo Considerations										
General Awareness	✓	✓	✓	✓					✓	✓
2. Positioning of Hazmat	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3. Accessibility of Hazmat	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
G. Aircraft Familiarization										
Aircraft and Operations Safety	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Aircraft Dimensions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cargo Door Operations (Main Deck and Lower Deck)	√	√	✓	✓			√	✓		
Use of Tall Post, Tall Stands and Nose Tethers	√	✓	✓	√	√	✓	✓	✓	✓	√
5. ULD and Cargo Compartment Contour	✓	✓	✓	✓	✓	✓	~	✓	✓	✓
6. Packing Limitation Chart	✓	✓	✓	✓			✓	✓	✓	✓
7. Loading and Officeding Procedures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8. Uses of Cargo Loading System	✓	✓	✓	✓			✓	✓		

[&]quot; Ground Handlers: Non-NAL employees operating the cargo loading system and supervising aircraft ground handling during the absents of a NAL Loadmaster or Crewmember.

Load Planning: Non-NAL employees performing the load planning of NAL aircraft

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4. REFERENCE MATERIAL

- SAE ARP 5486 Air Cargo Pallets-Utilization Guidelines
- SAE ARP 5595 Air Cargo Straps-Utilization Guidelines
- SAE 36104 Air Cargo Pallets and Nets
- ISO 16049-2

TRAINING AIDS

- · Cargo Operations Manual
- · Weight and Balance Manual
- OP-1B and OP-1C
- OP-2 and OP-2B
- OP-30 and OP-30M
- OP-31 and OP-31MC

6. DOCUMENTATION

The Instructor will complete the GROUND TRAINING ATTENDANCE RECORD (OT-17) or the CLASSROOM ATTENDANCE RECORD (OT-02) for each period of training. It is the instructor's responsibility that the OT-17 or OT-02 is filled out properly and filed in the National Airlines Operations Training Department.