

Aviation Logistics in Humanitarian Operations

Supporting Emergency Relief Through Air Transport and Crisis Logistics

3 DAYS VIRTUAL | 14 IN PARTICIPANTS | Available Languages: DE+EN

AIR CARGO MANAGEMENT

AVIATIONNOW.ACADEMY

Description

Understand the critical role aviation plays in humanitarian operations and gain a clear overview of how air transport supports relief delivery, personnel movement and emergency response in crisis environments where ground infrastructure is limited or damaged. This course is structured around the key operational principles required to organize aviation support, coordinate air logistics and accelerate decision-making during time-critical humanitarian missions.

Over the duration of the course, you will not only explore the foundations of humanitarian aviation systems and logistics coordination, but will also examine how airlift operations are planned and managed during emergency response. You will learn how aviation actors, humanitarian organizations and logistics teams collaborate to deliver relief supplies, medical cargo and essential personnel under severe operational constraints. Through practical examples, operational planning exercises and structured discussions, you will gain valuable insight into cargo prioritization, aircraft capacity considerations and coordination mechanisms in humanitarian aviation. This solid understanding of aviation logistics in crisis environments will help you support effective humanitarian response operations and contribute to the efficient delivery of aid when rapid aviation deployment becomes critical.

Target group

- Humanitarian logistics officers
- Supply chain and procurement personnel
- Emergency response coordinators and personnel supporting crisis logistics planning
- Field operations managers
- UN, NGO, and government staff coordinating humanitarian air transport
- Personnel supporting crisis logistics planning

Class location: virtual; 1 session à 2,5 hours per day, total live instruction time 7,5 hours

Pre-course work: 45-60 minutes

Included: digital workbook and operational templates, certificate

Learning objectives

- Understanding the structure of humanitarian logistics systems and the role of aviation within global relief operations
- Insight into coordination mechanisms between humanitarian organizations, aviation operators and logistics teams
- Comprehension of humanitarian aviation terminology and key operational concepts used in crisis logistics environments
- Understanding aircraft characteristics and capacity considerations relevant for humanitarian air transport planning
- Applying structured approaches to cargo prioritization when airlift capacity and time are limited
- Developing the ability to analyze aviation logistics requirements during rapidly evolving crisis situations
- Applying operational planning methods to organize humanitarian airlift support for emergency response missions
- Understanding the interface between aviation logistics and ground-based humanitarian supply chain operations
- Identifying operational constraints related to infrastructure, airport capacity and aircraft availability in disaster areas
- Applying risk awareness principles to aviation-supported humanitarian logistics operations
- Developing practical planning approaches for the first phase of humanitarian air logistics deployment
- Strengthening analytical and coordination skills through scenario-based humanitarian logistics decision-making exercises

Course outcomes

- Understanding of aviation logistics in humanitarian operations and the role of air transport in emergency response and relief delivery
- Ability to plan and coordinate humanitarian airlift operations using cargo prioritization and aircraft capacity considerations in crisis environments

MODULES

Humanitarian Aviation Landscape

Humanitarian Logistics Systems

Aviation Actors & Coordination

Aviation-Ground Logistics Integration

Cargo Prioritization & Capacity Management

Air Logistics Planning Fundamentals

Operational Constraints & Risk Awareness

Crisis Airlift Strategy & Decision Making

Final workshop presentation and certification