



Airport Baggage Handling Systems Course: BHS Operations, Maintenance and Mishandling Reduction

10 – 14 May 2027

Dubai - Five-star CBD venue



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Introduction:

Airport baggage handling systems BHS operations, maintenance and mishandling reduction is the subject of this 5-day course for BHS managers, maintenance engineering leads and baggage service leads, ending with a BHS Performance and Mishandling Reduction Plan for a case airport. Airports lose departures and passenger trust when sorters jam, in-line screening queues back up, maintenance falls behind and transfer bags miss their connections. Nominees already run, maintain or report on a baggage system and work through case studies on fault logs, sorter data and mishandled bag records. CoreConcept Training Center delivers this airport baggage handling systems course.

Course Objectives:

- Map bag flow, system components and responsibilities for departure, transfer and arrival baggage in an airport BHS
- Specify how collectors, sorters, early bag storage, in-line hold baggage screening and SCADA controls work together to route bags by flight and security status
- Supervise daily BHS operation, preventive maintenance and spare parts control to keep sorters and conveyors available at peak hours
- Resolve jams, faults and degraded modes with clearance procedures, fallback sortation and root cause analysis of recurring stoppages
- Apply baggage reconciliation and IATA Resolution 753 tracking points to measure and reduce mishandled bags
- Build a BHS Performance and Mishandling Reduction Plan for a case airport

Target Audience:

- Managers responsible for baggage handling system operation, control rooms and sort allocation
 - Maintenance engineering leads accountable for conveyor, sorter and screening machine availability
 - Baggage service leads who monitor mishandled bags, transfer performance and tracing results
 - Airline and ground handling managers who agree baggage service levels with the airport
 - Asset and project managers who plan BHS upgrades, extensions or replacement
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Course Outline:

Day 1: BHS Landscape, Bag Flow and Performance Baseline

- Baggage Handling System Process Map From Check-In to Aircraft Hold
- Airport, Airline, Handler and BHS Maintainer Responsibility Matrix
- Bag Tag Licence Plate and Automatic Tag Reader Basics
- Departure, Transfer and Arrival Bag Flow Volume Profiles
- BHS Baseline Review Using Throughput and Mishandling Records

Day 2: BHS Architecture, Controls and In-Line Screening Integration

- Check-In Collector Lines, Merges and Input Regulation Design
- Tilt Tray, Cross Belt and Destination Coded Vehicle Sorters
- Early Bag Storage Function and Release Logic for Make-Up
- In-Line Hold Baggage Screening Stages and Security Status Sorting
- SCADA, PLC Controls and Upper-Level Sort Allocation Software

Day 3: Daily BHS Operation, Maintenance and Bag Reconciliation

- BHS Control Room Monitoring, Alarms and Shift Handover Log
- Preventive Maintenance Plans for Conveyors, Drives and Diverters
- Spare Parts Criticality Ranking and Maintenance Work Order Flow
- Make-Up Lateral Allocation and Flight Close-Out Coordination
- Baggage Reconciliation System Checks and No-Show Bag Offload

Day 4: Faults, Jams, Availability and Mishandled Bag Analysis

- Jam Detection, Clearance Procedure and Recurring Jam Root Cause
- BHS Availability, Mean Time Between Failures and Repair Analysis
- Degraded Mode and Manual Sortation Fallback Procedures
- IATA Resolution 753 Tracking Points and Baggage Messages
- Mishandled Bag Rate Analysis by Transfer, Tagging and Loading Cause

Day 5: Case Study on the BHS Performance and Mishandling Reduction Plan

- Case Airport BHS Fault Log and Sorter Data Review
 - Case Transfer Bag Misconnection Pattern and Cause Ranking
 - Case Preventive Maintenance and Spares Gap Assessment
 - Case Tracking Point Coverage Check Against Resolution 753
 - BHS Performance and Mishandling Reduction Plan Completion
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Skills You Will Gain:

- Bag Flow Mapping
- Sortation System Configuration
- In-Line Screening Interface Management
- BHS Preventive Maintenance Planning
- Jam Root Cause Analysis
- System Availability Measurement
- Baggage Reconciliation Control
- Mishandled Bag Trend Analysis

Why Attend This Course:

- Deliver a BHS Performance and Mishandling Reduction Plan to the head of baggage operations or the airport asset owner for approval
- Decide when to switch to degraded mode, release early bags or reassign make-up laterals using defined criteria
- Avoid missed transfer bags, extended sorter downtime and departure delays caused by unreconciled bags
- Coach control room operators, maintainers and baggage agents with the jam clearance checklist, maintenance schedule and tracking point review

Conclusion:

Back at work, the participant presents the BHS Performance and Mishandling Reduction Plan to the head of baggage operations, the maintenance manager and airline station representatives. They use it to agree preventive maintenance priorities, spare parts levels, degraded mode triggers and the tracking point coverage each airline needs. After the first peak season under the plan, the baggage unit should compare sorter availability, recurring jam counts, transfer misconnections and mishandled bag rates with the plan and revise the controls that did not improve them.

Frequently Asked Questions FAQ:

What should participants know before an airport baggage handling systems course?

Participants should already operate, maintain or report on a baggage handling system, or manage the airline or handling side of baggage service. Bringing anonymised fault logs, sorter throughput data or mishandled bag records supports the case study day.

How does an airport baggage handling systems course differ from a general airport operations course?

This course centres on the baggage system itself: sorters, early bag storage, in-line screening interfaces, controls, maintenance, jams, reconciliation and tracking. A general airport operations course covers stands, turnarounds, passenger flow and the operations control centre across the whole airport.

Why do airport baggage handling systems teams track bags at set points?

Tracking points show where a bag was last seen, so a missing bag can be found and the cause of mishandling located. IATA Resolution 753 asks airlines to track bags at acceptance, loading, delivery to transfer and return to the passenger.

What do participants take back from the airport baggage handling systems course?

Participants take back a BHS Performance and Mishandling Reduction Plan with a jam clearance checklist, a preventive maintenance and spares outline, degraded mode triggers and a tracking point coverage review they can adapt to their own airport.
