

SETTING UP A MAINTENANCE TEAM FOR AN INTERNATIONAL AIRPORT

“Building a High-Impact HR Foundation through Practical Tools and Core Competencies”

Schedule

Date	Venue	Fees (Face-to-Face)
04 – 05 Mar 2026	Dubai, UAE	USD 1995 per delegate

Introduction

International airports operate as highly complex ecosystems with thousands of critical assets, systems, and spaces under continuous use. To ensure passenger safety, regulatory compliance, and uninterrupted service, airport authorities must establish and manage highly efficient and specialized maintenance teams.

This practical 2-day course guides facility managers, engineers, and operational leaders through the process of designing, structuring, and deploying a high-performance airport maintenance team. Participants will explore best practices for maintenance planning, team roles, training, safety, and performance monitoring—tailored specifically to the unique environment of international airports.

Objectives

By the end of this course, participants will be able to:

- Design a structured, scalable maintenance organization for airport operations
- Define team roles, technical requirements, and skill matrices
- Develop preventive, predictive, and reactive maintenance strategies
- Ensure full compliance with airport safety, aviation, and facility regulations
- Integrate CMMS systems for asset tracking and workflow management
- Plan and execute effective shift rosters, emergency readiness, and audits

Why Attend

- Build or optimize a maintenance team tailored for the scale and complexity of airport infrastructure
- Ensure safety-critical systems (HVAC, lighting, baggage handling, air bridges) operate reliably
- Apply global best practices in airport facility and systems maintenance
- Learn how to recruit, train, and retain specialized airport maintenance professionals
- Strengthen coordination between engineering, security, and operations teams

Target Audience

This program is designed for:

- Airport facility and maintenance managers
- Aviation infrastructure project leads
- Mechanical, electrical, and civil engineers
- FM contractors and service providers for airports
- Safety and regulatory compliance officers

Individual Benefits

Key competencies that will be developed include:

- Maintenance team structuring and deployment
- Critical asset management and systems coordination
- Technical documentation and shift scheduling
- KPI tracking and regulatory compliance
- Cross-functional communication and crisis readiness

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reliable, 24/7 operational performance of airport assets
- Stronger maintenance team capability and accountability
- Reduced incidents, downtime, and maintenance backlog
- Better integration between maintenance and terminal operations
- Compliance with ICAO, FAA, GACA, or local authority standard

Instructional Methodology

- Strategy Briefings - Airport-specific FM frameworks, compliance codes, and international benchmarks
- Hands-On Exercises - Drafting team roles, site checklists, and skill matrices
- Case Studies - Analysis of airport maintenance team structures across global hubs
- Workshops - Designing organizational charts, workflow diagrams, and daily routines
- Peer Exchange - Best practice sharing on staffing, training, and subcontractor management
- Tools - CMMS templates, risk assessment guides, SLA trackers, and shift logs

Course Outline

Detailed 2-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 2–3 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1 - Designing the Maintenance Function

• **Module 1: Understanding the Airport Maintenance Landscape (07:30 - 09:30)**

- Types of systems under maintenance: airside, terminal, landside
- Regulatory context: ICAO, FAA, GCAA
- The 24/7 operational challenge in airport facilities

• **Module 2: Maintenance Organization & Team Roles (09:45 - 11:15)**

- Staffing levels, job descriptions, and role distribution
- Skill matrix development and trade specialization
- In-house vs. outsourced models for airport FM

• **Module 3: Asset Segmentation and Maintenance Planning (11:30 - 01:00)**

- Asset criticality, classification, and hierarchy
- PM, PdM, CM strategies tailored to aviation infrastructure
- Documentation, tagging, and lifecycle management

• **Module 4: Workshop - Designing the Maintenance Team Org Chart (02:00 - 03:30)**

- Teams build a model team structure for a sample terminal zone

Day 2 - Operations, Safety & Performance Optimization

• **Module 5: CMMS and Digital Workflows (07:30 - 09:30)**

- Selecting and integrating CMMS with airport systems
- Mobile maintenance apps and technician routing
- Data capture and asset performance analytics

• **Module 6: Safety, Emergency Readiness, and Compliance (09:45 - 11:15)**

- Safety protocols for airside and terminal areas
- Lockout/tagout, confined space, and energy isolation
- Readiness drills, documentation, and incident response

• **Module 7: Monitoring, Auditing & Continuous Improvement (11:30 - 01:00)**

- Key KPIs: uptime, MTTR, PM compliance
- SLA reporting, dashboards, and audit preparation
- Training programs and contractor control

• **Module 8: Simulation - Readiness & Reporting Exercise (02:00 - 03:30)**

- Teams plan shift schedules, incident protocols, and SLA scorecards
- Peer review and instructor feedback

Certification

Participants will receive a **Certificate of Completion in Setting Up a Maintenance Team for an International Airport**, validating their ability to design, deploy, and manage maintenance operations in a high-stakes aviation environment.

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