Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

AVIATION AND AIRPORT MANAGEMENT

Airport Engineering Project Management Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
5 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 21, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

P.O. Box 102802-00101, Nairobi, Kenya

Training Centers: Nairobi • Mombasa • Kigali • Dubai • Live Virtual Academy

Tel: +254 724 527 104 | +254 734 969 612

Email: training@datastatresearch.org

www.datastatresearch.org

Airport Engineering Project Management Training Course

Aviation and Airport Management • 5 Days Intensive • Accredited Certification

Course Overview

Airport Engineering Project Management Training Course equips participants with advanced knowledge, practical tools, and internationally recognized best practices for planning, executing, monitoring, and closing airport engineering projects.

Key Skills & Software Tools Covered

MS Word • Microsoft Project • Primavera P6 • AutoCAD.

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
27 Jul 2026 – 31 Jul 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
27 Jul 2026 – 31 Jul 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
27 Jul 2026 – 31 Jul 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**
27 Jul 2026 – 31 Jul 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 110,000**
27 Jul 2026 – 31 Jul 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 110,000**
27 Jul 2026 – 31 Jul 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 110,000**
27 Jul 2026 – 31 Jul 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 110,000**
27 Jul 2026 – 31 Jul 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 110,000**
27 Jul 2026 – 31 Jul 2026	Accra	Classroom / 5d	**$4,000 USD / KES 110,000**
3 Aug 2026 – 7 Aug 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
3 Aug 2026 – 7 Aug 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
3 Aug 2026 – 7 Aug 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

Airport Engineering Project Management Training Course

Introduction

Airport Engineering Project Management is a strategic discipline that integrates airport infrastructure planning, aviation engineering, construction management, project governance, sustainability, digital transformation, risk management, stakeholder engagement, and regulatory compliance to deliver safe, resilient, and future-ready airport facilities. As global aviation continues to expand, airport authorities and engineering professionals must successfully manage complex capital projects involving terminals, runways, taxiways, airfield lighting, utilities, cargo facilities, and smart airport technologies while maintaining operational continuity and international aviation standards.

Airport Engineering Project Management Training Course equips participants with advanced knowledge, practical tools, and internationally recognized best practices for planning, executing, monitoring, and closing airport engineering projects. Participants will explore project lifecycle management, contract administration, BIM integration, quality assurance, environmental sustainability, cost control, scheduling techniques, procurement strategies, and innovation-driven infrastructure development through practical exercises and global airport case studies that improve project delivery performance and organizational competitiveness.

Course Objectives

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

- Apply modern airport engineering project management methodologies.
- Develop strategic airport infrastructure project plans.
- Strengthen project governance and leadership capabilities.
- Improve cost estimation and financial management.
- Implement advanced scheduling and resource optimization.
- Integrate BIM and digital engineering solutions.
- Manage project risks using proactive mitigation strategies.
- Enhance quality assurance and construction supervision.
- Apply international aviation safety and regulatory standards.
- Strengthen procurement and contract management practices.
- Promote sustainable and climate-resilient airport development.
- Improve stakeholder communication and collaboration.
- Deliver airport projects efficiently within scope, budget, and schedule.

Organizational Benefits

- Improved project planning and execution efficiency.
- Enhanced infrastructure quality and reliability.
- Reduced project delays and cost overruns.
- Stronger regulatory compliance.
- Better stakeholder coordination.
- Increased operational resilience.
- Improved engineering risk management.
- Enhanced sustainability performance.
- Optimized capital investment returns.
- Strengthened organizational project management capability.

Target Audience

- Airport Engineers
- Civil Engineers
- Project Managers
- Airport Authority Officials
- Construction Managers
- Engineering Consultants
- Infrastructure Development Professionals
- Aviation Regulatory Personnel

Course Duration: 5 days

Course Modules

Module 1: Airport Engineering Project Fundamentals

- Airport infrastructure planning principles.
- Project lifecycle management.
- Engineering feasibility studies.
- Airport master planning integration.
- International aviation engineering standards.
- Case Study: Heathrow Airport Terminal 5 Project (United Kingdom).

Module 2: Project Planning and Scheduling

- Project scope definition.
- Work Breakdown Structure (WBS).
- Critical Path Method (CPM).
- Resource allocation strategies.
- Project scheduling software applications.
- Case Study: Istanbul Airport Construction (Türkiye).

Module 3: Cost Estimation and Financial Management

- Engineering cost estimation.
- Budget planning techniques.
- Cost monitoring and reporting.
- Value engineering practices.
- Financial risk management.
- Case Study: Denver International Airport Expansion (USA).

Module 4: Procurement and Contract Management

- Procurement planning.
- Tender evaluation.
- Contract administration.
- Contractor performance management.
- Claims and dispute resolution.
- Case Study: Doha Hamad International Airport Expansion (Qatar).

Module 5: Construction Quality and Risk Management

- Construction quality assurance.
- Engineering inspections.
- Safety management systems.
- Risk identification and mitigation.
- Compliance monitoring.
- Case Study: Changi Airport Terminal 4 Development (Singapore).

Module 6: Sustainable Airport Engineering

- Green airport infrastructure.
- Climate resilience strategies.
- Energy-efficient engineering.
- Environmental impact management.
- Sustainable construction practices.
- Case Study: Oslo Airport Sustainability Program (Norway).

Module 7: Digital Engineering and Smart Airport Technologies

- Building Information Modeling (BIM).
- Digital project management tools.
- Smart airport infrastructure.
- GIS integration.
- Engineering data analytics.
- Case Study: Beijing Daxing International Airport (China).

Module 8: Project Close-Out and Performance Evaluation

- Project commissioning.
- Performance measurement.
- Lessons learned documentation.
- Asset handover procedures.
- Continuous improvement planning.
- Case Study: Hong Kong International Airport Three-Runway System (Hong Kong).

Training Methodology

- Interactive expert-led presentations.
- Practical engineering workshops.
- Airport engineering simulations.
- Group discussions and collaborative learning.

- Global airport case study analysis.
- Project planning exercises.
- Risk assessment activities.
- BIM and digital engineering demonstrations.
- Team assignments and presentations.
- Action planning and performance evaluation.

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/airport-engineering-project-management-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.