



Ministry of Civil Aviation

Egyptian Aviation Academy

Course Name:

Quality Control of Runways Construction

DESCRIPTION:

This course aims at providing Airport engineers with necessary expertise required for quality control/quality assurance plan and executions. The course provides details on defining responsibilities during various construction stages. Material testing and evaluation methods as well as frequencies and laboratory approval are discussed in this course. Site inspection procedure and acceptance criteria will be discussed to clarify raised arguments among construction and design engineers.

About:

- * Quality Control of Runways Construction

Course format:

- * Lectures

What you will learn:

- * providing Airport engineers with necessary expertise required for quality control/quality assurance plan and executions.

Who should attend:

- * Resident Engineers
- * Site Engineers
- * Consultants and other specialists
- * Clients Representative
- * Assistance Project Managers



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PREREQUISITES: participants should have prior knowledge of:

- * Civil or Electrical or mechanical engineering

COURSE CONTENT:

Evolution of Pavement Quality Control

- Pavement Material Characterization
- Conventional Quality Control
- Performance Related Specifications
- BOOT End Result Specifications

Pavement Construction Procedure

- Earth work and equipment
- Construction equipment
- Compaction techniques
- Construction of Bituminous Material
- Rates of Spread of Bituminous Materials

Pavement Layers Quality Control

- Asphalt Mix Plants
- Mix hauling and scheduling
- Mix placing and segregation

Pavement Layers Quality Control

- Quality Control Tests and procedures
- Subgrade Relative Compaction
- Base and Sub base Quality Requirement
- d. Asphalt Concrete Mix Acceptance/Rejection
- e. Payment Adjustment Factor

Construction of Rigid Pavement

- Rigid vs. flexible pavement
- Construction of Rigid Pavements
- Surface finishing and smoothness



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- Types and Details of Slab joints

OVERVIEW:

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DURATION:

* (5 days) 20 hours

LEVEL:

LANGUAGE INSTRUCTION:

* English