



Ministry of Civil Aviation

Egyptian Aviation Academy

## **Course Name:**

Design and Construction of Airports

## **DESCRIPTION:**

The objective of this course is to provide Airport engineers with advanced skills on Design and Construction of Airports. The course provides details on Airport Geometry, Runway Design, design of Runway Rigid Pavement, design of Runway Flexible Pavement, Wind Analysis, Pavement Layers Quality Control, Pavement Construction Procedure, Visual Survey of Pavement Distresses and Pavement Classification Number (PCN).

## **About:**

- \* Design and Construction of Airports

## **Course format:**

- \* Lectures

## **What you will learn:**

- \* provides details on Design and Construction of Airports

## **Who should attend:**

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



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- \* Clients Representative

**PREREQUISITES: participants should have prior knowledge of:**

- \* Civil or Electrical or mechanical engineering

**COURSE CONTENT:**

- \* Introduction and Definition of Terms
- \* Airport Geometry
- \* Runway Design
- \* Design of Runway Rigid Pavement
- \* Design of Runway Flexible Pavement
- \* Wind Analysis
- \* Pavement Layers Quality Control
- \* Pavement Construction Procedure
- \* Evolution of Pavement Quality Control
- \* Construction of Rigid Pavement
- \* Visual Survey of Pavement Distresses
- \* Prediction Models of Pavement Deterioration
- \* Pavement Classification Number (PCN)

**OVERVIEW:**

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**DURATION:**

- \* (5 days) 20 hours

**LANGUAGE INSTRUCTION:**

- \* English / Arabic