



Ministry of Civil Aviation

Egyptian Aviation Academy

## **Course Name:**

Assessment and Repair of Runway Pavements

## **DESCRIPTION:**

The objective of this course is to provide pavement repair engineers with advanced skills on repair and reservation of pavements on a large highway system typically involves treatment decision about how and when to repair or reconstruct or apply other treatments to keep the highway performing and operating costs at a reasonable level. The course also aims at enhancing the participant's skills with advanced topics on road management and its application in road design and construction.

## **About:**

- \* Assessment and Repair of Runway Pavements

## **Course format:**

- \* Lectures

## **What you will learn:**

- \* provide pavement repair engineers with advanced skills on repair and reservation of pavements on a large highway system

## **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**

- Fundamentals of Pavement Repair
- Pavement Distress Identification
- Characteristics of Repair Life Cycle

**Pavement Assessment Concept**

- Types of Pavement Defects
- Determining Pavement defects
- Concept of Pavement Serviceability

**Pavement Distress Survey**

- Survey Panel Characteristics
- Procedure of Data Collection
- Paver Deduct point Evaluation
- Ranking of Pavement Sections

**Concept of Life Cycle Cost**

- Preventive and Corrective repair
- Selection of Repair Treatments
- Repair Treatment Effectiveness
- Life Cycle Cost

**Types of Repair Treatments**

- Thin Overlay
- Rehabilitation
- Deep Patching
- Chip Seals



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- Slurry Seals
- Crack Sealing

**OVERVIEW:**

\*

**DURATION:**

\* (5 days) 20 hours

**LEVEL:**

**LANGUAGE INSTRUCTION:**

\* English / Arabic