



Training Course: **Airport Pavement Management System (APMS)**

Delivery: Classroom and on-site, including airside visit at night / Virtual Class

Duration: 5 days onsite and 12 hrs virtual class

Learning Objectives

Upon completing this course, participants will be able to understand the basics of airport pavement management systems and their importance in maintaining safe and efficient airport operations.

Target Audience

- Airport Civil Engineer
- Airport Civil Technician
- Airside Managers Maintenance and Inspection
- Airside Maintenance Personnel
- Engineering Department Personnel
- Airside compliance officers
- Airside inspectors

Course Contents

Module 1: Pavement Evaluation Plan

- Introduction
- Evaluation Procedure
- Fundamental Data Collection
- Segmentation

Module 2: Pavement Surface Survey

- Surface distress condition
- Runway longitudinal roughness
- Surface friction

Module 3: Pavement Surface Condition Analysis

- Surface distress condition analysis
- Runway longitudinal roughness analysis
- Surface friction analysis

Module 4: Pavement Strength Survey

- Field Survey for Collecting Data
- NDT (Non-Destructive Testing)



Module 5: Pavement Strength Analysis

- Analysis process
- Summarization for Deflection
- Calculation of Modulus of Soil Reaction
- Modulus of Elasticity Calculation
- Analysis of Load Transfer Efficiency of Concrete
- Pavement Conversion of Compressive Strength to Flexural strength
- Pavement Strength Conversion of Traffic Volume
- Remaining Life of Pavement
- Analysis of Allowable Load
- Calculation of PCN

Module 6: Repair and Rehabilitation Plan

- Airport Pavement Maintenance Concept
- Repair and Rehabilitation Plan