

# LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN AND OPERATION OF AIRPORT INFRASTRUCTURES



# Overview of Modules

## Module 0

- Introduction

## Module 1

- Site Development and Management for Sustainable Airport Functions.

## Module 2

- Material and Resource Management for Waste Reduction

## Module 3

- Indoor Environmental Qualities for Occupants' Comfort

## Module 4

- Optimization of Energy Performance

## Module 5

- Management of Water Efficiency

## ➤ **About this Standardised Training Package**

- This Standardised Training Package (STP) is on "**Leadership in Energy and Environmental Design and Operation of Airport Infrastructures (LEEDOAI)**"
- The aim of this course is to provide Airport Sustainability Specialists, Airport Master Planning, Project & Engineering, Airport Operators and Environment Management Specialists the necessary knowledge, skills and attitudes required to effectively implement and manage Airport LEEDOAI in accordance with LEED standards and guidelines.

## **Course objective**

- **Objective:** Maximize economic and environmental performance of the airport infrastructures by adopting Sustainability Concepts.

### **The trainees after this course should be able to:**

- Efficiently use infrastructure and reduce the loss of natural resources such as fuels, energy, water, maintenance and operations costs of airport.
- Comply with environmental regulatory requirements and address the community complaints such as noise, waste dumps in and around airports.
- Avoidance of Runway and terminal flooding, hydroplaning on Runways, bird aircraft hits, storm water accumulation in and around Airport.
- Address stakeholder and community complaints, Pollution at aprons, chemical & oil spills, high direct and indirect energy emission from Airport.
- Address the problem of terminal congestion, capacity constraints, inefficient collaborative environment management between all Airport stakeholders.

## ↗ Time 10 AM to 5.30 PM

### Module 0 – Day 1

- Introduction on Green Infrastructures and Green Rating System for Airport Facilities

### Module 1 – Day 1

- Sustainable Site Selection for Airport Functions.

### Module 2 – Day 2

- Efficient management of materials and resources.

### Module 3 – Day 3

- Indoor environmental qualities for Airport Functions.

### Module 4 – Day 4

- Optimize the energy performance & protect atmosphere and environment.

### Module 5 – Day 5

- Water efficiency Improvements.

## Needs of this Standardized Training Package (STP) for Airport:

### EXPECTED BENEFITS

- This training would benefit Airport and its stakeholders on managing and controlling loss of natural resources such as fuels, energy and water for Airport operations, issues on site management such as soil contamination and pollutions, inefficient utilization of infrastructural, wastes generation, oil and chemical spillage, land contamination, storm water accumulation and community issues such as aircraft noise, waste dumps in and around Airports.
- Development of common knowledge, skills and attitudes on LEEDOAI and environment managements requirements between environment specialist, Airport operators, project and engineering and master planning team's
- Imparting necessary knowledge, skills and attitudes on root cause analysis, environmental aspect and impacts, building lifecycle assessments.
- Development of effective strategic plans for short and long terms as per the changes in administrative, regional and regulatory controls and establishment of basic environment and sustainability parameters for monitoring and reporting key environmental performance.
- Enable compliance with applicable regulatory requirements