



Certificate in Airport Environmental Management

Overview

This certificate program provides airport staff with an understanding of the basic principles of sustainable development and environmental management.

It covers the key environmental impacts associated with airport operations and growth, the benefits gained from effective environmental management and the essential elements of implementing an Environmental Management System at your Airport.

Objectives

The Certificate in Airport Environmental Management is made up of the following seven modules:

Module 1 – Airport Environmental Management and Sustainable Development

Module 2 – Noise Management and Community Relations

Module 3 – Managing Local Air Quality

Module 4 – Climate Change and Greenhouse Gas Management

Module 5 – Resource Management

Module 6 – Waste Prevention and Management

Module 7 – Implementing an Environmental Management System

Course Content

Module 1 Airport Environmental Management and Sustainable Development

1. Managing the Environmental Impacts Associated with Airports.
2. Principles of Sustainable Development.
3. Sustainable Development – Practices and Actions.
4. Sustainable Development – Reporting and Certification.
5. Assessment
6. Resources

Module 2 Noise Management and Community Relations

1. Introduction
2. Noise Science
3. Community Response to Noise
4. International Standards and Guidance
5. Noise Management Practices



6. Land Use Planning
7. Community Engagement
8. Ground Based Noise Sources
9. Assessment
10. Resources

Module 3 Managing Local Air Quality

1. Understanding LAQ
2. Standards and Regulations
3. Monitoring LAQ
4. Airport Emissions Inventory
5. Dispersion Modeling
6. Emissions Management and Mitigation
7. Assessment
8. Resources

Module 4 Climate Change and Greenhouse Gas Management

1. Climate Change and Airport Greenhouse Gas Management
2. Drivers for GHG Management
3. Emissions Inventory and Goal Setting
4. Measures to Reduce Airport GHG Emissions
5. Reviewing, Reporting and Certification
6. Efforts on Aviation Emissions
7. Assessment
8. Resources

Module 5 Resource Management

1. Energy Management
2. Fuel Management
3. Potable Water Conservation
4. Storm Water Management
5. Land Use Management
6. Hazardous Materials Management
7. Office Resource Management
8. Assessment
9. Resources

Module 6 Waste Prevention and Management

1. Introduction
2. Waste Classification and Management



3. Waste Collection and Recycling
4. Airfield and Deplaned Waste Collection
5. Construction and Demolition Debris
6. Wastewater and Stormwater Management
7. De-icing and Anti-icing Fluid Management
8. Contaminated Soil and Groundwater
9. Assessment
- 10 Resources

Module 7 Implementing an Environmental Management System

1. Introduction
2. What is an Environmental Management System?
3. Benefits of an EMS
4. What makes Airports different to other sites?
5. Implementing an EMS at an Airport
6. International Accreditation
7. Assessment
8. Resources