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COURSE BROCHURE

Airport Environmental Management and Noise Control Training Course

15 – 19 November 2027
Singapore

Airport Environmental Management and Noise Control Training Course

Ref: 2061_75919 **Date:** 15 – 19 November 2027 **Location:** Singapore **Fees:** 9300 GBP

Airport Environmental Management and Noise Control is a 1-week training course for environment leads, community liaison officers and operations planners who must balance growth in air traffic with the wellbeing of neighbouring communities, and who leave with a working Airport Noise and Environmental Action Plan. Pressure to show progress on noise, emissions, water and waste rises as runways expand. Jupiter Prime Training delivers this course on airport environmental management and noise control.

Why Airport Environmental Management and Noise Control Matters Now

Three forces shape airport environmental work today: residents and local authorities who expect transparent noise data, airlines and investors who tie capacity decisions to emissions performance, and fleet renewal that changes the shape of noise footprints. Handled well, they protect operating hours and planning consent; handled badly, they bring night restrictions and delayed expansion. The course rests on the balanced approach to aircraft noise management, which weighs source reduction, land-use planning, operating procedures and operating restrictions, and on an environmental management system EMS.

Who Gains Most from Airport Environmental Management and Noise Control

- Specialists responsible for noise monitoring, contour modelling and complaint records
- Officers who run community consultation forums and respond to resident enquiries
- Air quality leads who track stand power, APU use and vehicle fleets
- Facilities coordinators who handle stormwater, de-icing runoff and waste
- Airside operations and flight procedure planners who shape departure routes and runway use

An airport environment department gains most when its noise, air quality and community relations staff attend together and agree one shared evidence base.

Airport Environmental Management and Noise Control Capabilities

Participants turn noise contours and pollutant inventories into abatement measures operations can sustain.

- Interpret noise contours, single-event levels and population exposure counts — runway use and land-use planning decisions
- Assess noise abatement departure procedures and preferential runway schemes — air traffic and airline partners
- Design a monitoring network for noise, air pollutants and surface water — environment committees and auditors
- Calculate an emissions inventory covering aircraft, ground support equipment and road access — sustainability reporting
- Build waste segregation and de-icing fluid recovery arrangements — facilities contractors and tenants
- Communicate environmental performance and complaint trends to neighbouring communities — consultative committees and local councils

Key Airport Environmental Management and Noise Control Terms

- Noise contour — a map line joining points of equal average aircraft sound exposure around an airport.
- Noise abatement departure procedure — a climb profile that reduces sound on the ground near the airport or further along the flight path.
- Balanced approach — choosing noise measures by weighing source reduction, land use, procedures and restrictions.
- Emissions inventory — a structured count of pollutants and greenhouse gases from airport sources over a period.
- De-icing runoff — glycol-laden water from aircraft and pavement treatment that must be captured before reaching drains or watercourses.
- Environmental management system — a documented cycle of policy, objectives, controls, monitoring and review for environmental aspects.

Airport Environmental Management and Noise Control Day by Day

Day 1: Airport Environmental Aspects and Neighbours

- Environmental Aspects Register — Which Airport Activities Drive Significant Impacts
- Stakeholder Mapping of Residents and Councils — Who Shapes Operating Consent
- Environmental Management System Cycle — How Objectives Link to Airport Operations
- Fleet Mix and Traffic Forecasts — Future Noise and Emissions Exposure
- Complaint Records Analysis — Where Community Concern Is Concentrated

Day 2: Aircraft Noise Measurement and Contours

- Noise Metrics and Single-Event Levels — Choosing Indicators Residents Recognise
- Noise Contour Modelling Inputs — Runway Use, Tracks and Fleet Assumptions
- Noise Monitoring Terminal Placement — Credible Evidence for Track Disputes
- Flight Track and Noise Correlation — Linking Events to Specific Operations
- Population Exposure Counts — Ranking Zones for Mitigation Priority

Day 3: Noise Abatement and Land Use

- Balanced Approach Assessment — Selecting Noise Measures by Cost and Effect
- Noise Abatement Departure Procedures — Trade-Offs With Fuel Burn and Capacity
- Preferential Runway and Respite Schemes — Sharing Relief Between Neighbourhoods
- Night Movement Quotas and Noise Charges — Incentives for Quieter Fleets
- Land-Use Zoning and Sound Insulation Schemes — Protecting Homes and Schools

Day 4: Air Quality, Water and Waste

- Airport Emissions Inventory — Aircraft, Ground Equipment and Access Traffic Sources
- Fixed Electrical Ground Power and APU Limits — Cutting Stand Emissions
- Stormwater and De-Icing Fluid Recovery — Protecting Drains and Watercourses
- Terminal and Cabin Waste Segregation — Raising Recovery Rates With Tenants
- Fuel Spill Response Arrangements — Containment Duties Across Airside Operators

Day 5: Practising the Airport Noise and Environmental Action Plan

- Community Consultative Committee Simulation — Presenting Contours and Complaint Trends
- Abatement Option Scoring Exercise — Applying Balanced Approach Criteria
- Monitoring Network and Indicator Set — Combining Noise, Air and Water Data
- Environmental Performance Report Drafting — Messages for Neighbours and Investors
- Airport Noise and Environmental Action Plan — Measures, Owners and Review Points

Applying Airport Environmental Management and Noise Control After the Course

- Review noise monitoring terminal locations against recent flight tracks and complaint clusters.
- Run a balanced approach scoring session with airside operations and airline representatives on one runway or departure route.

Airport Environmental Management and Noise Control Questions FAQ

What is airport environmental management and noise control and why does it matter now?

It is the discipline of measuring and reducing an airport's noise, emissions, water and waste impacts. It matters now because neighbours and planning bodies link airport growth to visible environmental progress.

Which roles gain most from airport environmental management and noise control training?

Noise and air quality specialists, community liaison officers, facilities coordinators and flight procedure planners gain most.

How does airport environmental management and noise control differ from an airport sustainability strategy course?

It focuses on local impacts felt by neighbours: noise contours, abatement procedures, stand emissions, runoff and waste. A sustainability strategy course concentrates on corporate carbon targets and disclosure.

What do you bring back from airport environmental management and noise control training?

You bring back a draft action plan with scored noise measures, a monitoring indicator set and a community reporting outline.

Airport Environmental Management and Noise Control: The Way Forward

The Airport Noise and Environmental Action Plan first informs which abatement measure the airport puts to its consultative committee and airline partners. Environment leads and airside planners use it to assign owners and track results. After its first season in use, revisit the respite and runway-use balance as fleet mix and traffic patterns shift.