



Emission To Air And Ambient Air Quality

Building expertise to manage emissions effectively and ensure sustainable ambient air quality.



Program Overview

This training program provides participants with a comprehensive understanding of air emissions and ambient air quality management, with a focus on regulatory requirements, monitoring methodologies, emission control techniques, and reporting obligations.

The program equips professionals with the knowledge and practical tools to identify and assess air pollution sources, interpret air quality data, and implement effective mitigation measures. Emphasizing compliance with environmental standards and the protection of public health, the course aligns with local regulations and international best practices to support sustainable and responsible air management across sectors.

PROGRAM AT A GLANCE

- 25th To 27th August 2026
- 18 CPD Hours
- 8:00 AM - 2:30 PM (GMT+3)
- In Person Public Program
In Riyadh (KSA)

Key Learning Outcomes

✓ Understand sources, types, and environmental and health impacts of air emissions.

✓ Learn fundamentals of ambient air quality standards and emission limit requirements.

✓ Apply practical air emission monitoring, sampling, and pollution control techniques.

✓ Ensure regulatory compliance through effective reporting and emission reduction strategies.

COURSE COVERAGE

Module 1: Introduction to Air Quality

- Air Quality and Air Pollution
- Atmospheric Cycle
- Air Pollution: Emissions, Concentrations, and Exposure
- Key Pollutants
- Health Impacts of Air Pollutants
- Costs of Air Pollution on Health
- Air Pollutants and Greenhouse Gases
- Linkages Between Air Quality and Climate Change

Module 2: Principles of Air Quality Monitoring

- Introduction to Air Quality Monitoring: Importance, History, Current Trends
- Air Quality Monitors and Instrumentation
- Principles of Network Design and Monitor Siting
- Dust and Odor Monitoring
- Quality Assurance/Quality Control (QA/QC) and Data Ratification

Module 3: Air Quality Regulations in KSA

- Overview of KSA Air Quality Regulations
- Executive Regulations for Air Quality (6 May 2021)
- Articles 1 to 8
- Appendices 1 to 8

Module 4: Introduction to Air Quality Assessment

- Real-World Air Dispersion Concepts
- Air Dispersion Modeling Principles
- Role of Dispersion Models in Regulatory Policy
- Types of Dispersion Models
- Combining Models: Nesting Techniques

Module 5: Introduction to Emissions Inventories

- Understanding Emission Inventories: What, Why, and How
- Air Quality and GHG Emission Inventories
- Emission Calculations and Tiered Approaches
- Required Data for Emission Inventories
- Data Management and Statistical Analysis

Module 6: Emissions Monitoring

- Atmospheric Pathways of Pollutants
- Emission Monitoring Methods and Techniques
- KSA Regulations for Emission Monitoring
- Manual Emission Monitoring
- Continuous Emission Monitoring (CEM)
- Predictive Emission Monitoring
- Quantification of Area Source Emissions

Module 7: Abatement & Control Technology

- Nature and Categories of Air Pollutants
- Common Pollutant Types: Particles, Gaseous, Multi-Phase
- Specific Pollutants: Acids, Ozone, NOx, SOx and Their Impacts
- Review of Common Control Techniques for Major Pollutants

TRAINER



Dr. Gerhard Fourie

Gerhard Fourie holds a Master's in Atmospheric Chemistry and a PhD in Environmental Sciences from the University of the North-West, South Africa. With over 25 years of experience in air quality and atmospheric science, he has managed numerous specialized projects, conducted air quality and impact assessments, and provided guidance to industry and government at local, national, and international levels.

He oversees project management, leads a team of experts, and fosters client relationships while ensuring compliance with regulations and industry standards. Gerhard conducts in-depth research and provides actionable recommendations, contributing to business development and strategic planning.

His extensive experience spans sectors including petroleum, chemicals, energy, and mining, with projects in Southern Africa, the Middle East, and North America. Gerhard combines scientific expertise with practical implementation, making him a trusted advisor in air quality management.

PROFESSIONAL ASSOCIATIONS & AFFILIATIONS



AREAS OF EXPERTISE

- Atmospheric Science
- Air Quality Management
- Environmental Compliance

Registration & Contact

PROGRAM DETAILS

- From 25th To 27th August 2026
- Timing 8:00 AM - 2:30 PM (GMT+3)
- 18 credit hours spread over three days training program.

Who Should Attend?

- Environmental & sustainability professionals
- Regulatory compliance officers
- Engineers & technical staff
- Consultants & project managers
- Government & policy makers

To proceed with company registration.

[CLICK HERE](#)

For any information, contact us at below given details.

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Nomination Form

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1							
2							
3							
4							
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8							
9							
10							

Note: Please complete the details below if your nomination is through a company.

HR Contact Person Details

Name:	Email ID:	Contact No:
Designation:	Company:	

Company Address:

Invoicing Contact Person Details

Name:	Email ID:
Designation:	Contact No:

Any Remarks:

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