

# AIR QUALITY MANAGEMENT & POLLUTION CONTROL

Cairo - Egypt  
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\$5,500

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TRAINING CENTER



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## Introduction

Air pollution is one of the most significant environmental issues facing cities, industries, and ecosystems worldwide. It not only affects public health but also contributes to climate change, ecosystem degradation, and economic losses. The management of air quality and the effective control of pollutants are essential for improving public health, ensuring environmental sustainability, and meeting regulatory requirements. The Air Quality Management & Pollution Control course, offered by Gentex Training Center, is designed to equip participants with the necessary knowledge and practical skills to assess, manage, and control air pollution. This course provides in-depth insights into the causes of air pollution, the regulatory frameworks in place to control emissions, and the technologies and strategies used to improve air quality. Participants will gain a comprehensive understanding of air pollution control methods, monitoring techniques, and air quality management systems.

## Course Objectives

- Understand the basic principles of air quality management and the sources of air pollution.
- Learn about the types of air pollutants and their impact on human health, ecosystems, and the climate.
- Gain knowledge of global and local regulatory standards, policies, and frameworks related to air quality management and pollution control.
- Explore the different methods and technologies used for monitoring air quality and controlling emissions.
- Develop the skills to assess air quality in various environments, including industrial, urban, and rural settings.
- Understand how to design and implement effective air pollution control strategies, including emission reduction and air quality improvement techniques.
- Learn about advanced technologies used in air pollution control, such as filtration, scrubbers, and catalytic converters.



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- Study case examples of successful air quality management and pollution control programs implemented around the world.
- Gain practical experience in air quality monitoring, assessment, and analysis.

## Course Methodology

The course combines theoretical knowledge with practical applications to ensure participants acquire both conceptual understanding and hands-on experience. It includes a mix of interactive lectures, case studies, group discussions, and practical exercises. Participants will work on real-world problems related to air quality management and pollution control, which will enhance their problem-solving skills and ability to apply knowledge in various contexts. The course also features fieldwork, where participants will have the opportunity to engage in air quality monitoring and analysis.

## Who Should Take This Course

- Environmental managers and specialists
- Industrial engineers and safety officers
- Government regulators and policymakers
- Air quality monitoring professionals
- Environmental consultants
- Urban planners and sustainability officers
- Public health experts concerned with the impact of air pollution on health
- Professionals working in industries with significant air emissions (e.g., manufacturing, transportation, energy)





# Air Quality Management & Pollution Control Course Outlines

## Day 1: Introduction to Air Quality Management

- Overview of Air Quality Management: Key Concepts and Importance
- Sources of Air Pollution: Natural and Anthropogenic
- Major Air Pollutants: Particulate Matter, Gaseous Pollutants, VOCs, and Ozone
- Health and Environmental Impacts of Air Pollution
- Air Quality Standards and Regulatory Frameworks
- Case Study: Air Quality Issues in Major Urban Areas

## Day 2: Air Pollution Control Technologies

- Overview of Pollution Control Technologies: Overview and Classification
- Technologies for Reducing Emissions: Filters, Scrubbers, and Electrostatic Precipitators
- Advanced Air Pollution Control: Catalytic Converters and Adsorption Systems
- Industrial Ventilation and Dust Control Systems
- Emerging Technologies for Air Quality Improvement
- Case Study: Application of Pollution Control Technologies in Industrial Settings

## Day 3: Air Quality Monitoring and Assessment

- Introduction to Air Quality Monitoring: Techniques and Tools
- Air Quality Monitoring Instruments: Types and Usage
- Air Sampling Methods: Continuous and Manual Sampling
- Data Analysis and Interpretation: Air Quality Index (AQI)

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- Environmental Impact Assessment (EIA) for Air Pollution
- Fieldwork: Air Quality Monitoring and Sampling Techniques

## Day 4: Regulatory Compliance and Policy Framework

- Global and Local Air Quality Regulations: Overview and Key Standards
- Emission Limits and Permitting Requirements
- The Role of International Agreements in Air Quality Management
- Monitoring and Reporting Requirements for Air Quality
- Strategies for Compliance with Air Quality Regulations
- Case Study: Regulatory Approaches to Air Quality Management in Different Countries

## Day 5: Designing and Implementing Air Quality Control Strategies

- Designing an Effective Air Quality Management System
- Emission Reduction Strategies and Pollution Prevention Plans
- Implementation of Air Pollution Control Measures in Industry
- Public Awareness and Stakeholder Engagement in Air Quality Management
- Risk Management in Air Quality: Emergency Response and Incident Management
- Final Group Project: Developing an Air Quality Management Plan for an Industrial Site



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## Conclusion

By successfully completing the Air Quality Management & Pollution Control course at Gentex Training Center, participants will gain comprehensive knowledge of air quality management principles, pollution control technologies, and regulatory compliance. They will develop the skills required to assess air quality, implement pollution control measures, and design effective management systems to improve air quality. The course will also enable participants to stay up-to-date with global best practices in air quality management, giving them the tools to contribute effectively to the reduction of air pollution in their respective organizations and communities. This knowledge will empower them to play a key role in the development of sustainable solutions for managing air quality and protecting public health and the environment.

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