



*Training Course:
Concepts of Industrial Noise Control*

4 - 8 May 2025

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Concepts of Industrial Noise Control

Training Course code: HE235885 From: 4 - 8 May 2025 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 3875 € Euro

Introduction:

This training program, designed by Global Horizon Training Center, provides a comprehensive exploration into the principles, practices, and regulatory standards of industrial noise control. Industrial noise, if not properly managed, can lead to hearing damage, reduced productivity, and legal liabilities. As industrialization expands, the need for noise control becomes increasingly critical for maintaining a safe and compliant work environment.

The program aims to equip participants with practical skills and theoretical understanding of noise generation, propagation, measurement techniques, and mitigation strategies. Emphasis will be placed on real-world applications, case studies, and tools for implementing effective noise control in various industrial settings.

Objectives:

By the end of the training program, participants will be able to:

- Understand the basic principles and sources of industrial noise.
- Identify health and safety implications related to industrial noise exposure.
- Utilize noise measurement instruments and interpret data.
- Apply noise control engineering solutions and strategies.
- Comply with national and international standards for occupational noise.
- Develop noise management plans and monitoring systems.
- Recommend design modifications and preventive measures for new and existing industrial projects.

Organizational Impact:

Organizations participating in this program will benefit in the following ways:

- Enhanced Workplace Safety: Reduced risk of hearing loss and improved employee well-being.
- Regulatory Compliance: Alignment with OSHA, ISO, and local environmental noise standards.
- Productivity Boost: Improved work environments with less distraction and stress.
- Risk Mitigation: Lower chances of legal penalties and compensation claims.
- Sustainability Goals: Contribution to environmental noise pollution control objectives.

Target Audience:

This program is ideal for:

- Environmental, Health, and Safety EHS Managers
- Industrial Engineers and Plant Supervisors
- Occupational Health Professionals
- Maintenance and Facilities Managers
- Compliance Officers
- Architects and Industrial Designers involved in facility planning
- Government and regulatory body personnel

Outlines:

Day 1: Fundamentals of Industrial Noise

- Introduction to sound: frequency, amplitude, decibels dB
- Noise vs. sound: definitions and perception
- Sources and types of industrial noise
- Physical and physiological effects of noise
- Overview of regulatory bodies and standards OSHA, ISO, NIOSH, EU directives

Day 2: Noise Measurement and Monitoring Techniques

- Instruments for noise measurement sound level meters, dosimeters
- Types of noise measurement peak, average, impulse
- Setting up a noise monitoring plan
- Noise mapping and frequency analysis
- Hands-on demonstration of noise measurement tools

Day 3: Engineering Controls and Noise Reduction Techniques

- Noise control hierarchy: elimination, substitution, engineering, administrative, PPE

- Engineering control solutions barriers, enclosures, silencers, absorbers
- Acoustic design principles for machinery and equipment
- Case studies on successful industrial noise mitigation

Day 4: Regulatory Compliance and Health Risk Management

- Exposure limits and hearing conservation programs
- Developing and implementing noise control policies
- Legal frameworks and workplace responsibilities
- Audiometric testing and hearing protection programs
- Documentation, reporting, and audits

Day 5: Industrial Noise Control Strategy and Future Trends

- Developing a comprehensive noise control plan
- Economic evaluation of noise control measures
- Integrating noise control into project design and procurement
- Emerging technologies and smart monitoring solutions
- Final workshop: Building a noise management action plan for your facility

Registration form on the Training Course: Concepts of Industrial Noise Control

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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