Training Course on Noise and Vibration Control in the Workplace

Professional Development Training Course Outline

Category	Occupational Health	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Workplace safety and health regulations continue to evolve, and Noise and Vibration Control has emerged as a critical area of focus across multiple industries. With increasing awareness around the long-term impact of exposure to hazardous noise levels and mechanical vibrations, organizations must equip their teams with the necessary skills to identify, evaluate, and mitigate these risks. Training Course on Noise and Vibration Control in the Workplace is designed to empower professionals with technical knowledge, compliance strategies, and best practices aligned with ISO 9612, OSHA, and EU Directives.

This results-driven course combines interactive training, practical case studies, and industrial applications to help participants understand how noise and vibration affect human health, performance, and equipment efficiency. By the end of the course, participants will be equipped to implement engineering controls, administrative measures, and personal protective solutions, all while ensuring regulatory compliance and fostering a safer, more productive work environment.

Programme Curriculum

Training Course on Noise and Vibration Control in the Workplace

Introduction

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Course Objectives

1. Understand the health effects of noise and vibration exposure in industrial environments.
2. Identify noise sources and vibration-generating equipment using measurement tools.
3. Analyze workplace risk assessments for noise and vibration hazards.
4. Apply OSHA, ISO 9612, and EU compliance standards for noise and vibration control.
5. Design effective noise mitigation strategies using soundproofing and dampening materials.
6. Select appropriate Personal Protective Equipment (PPE) for hearing and vibration protection.
7. Interpret audiometric testing results and employee health reports.
8. Integrate noise monitoring technology and real-time tracking tools.
9. Develop engineering controls such as vibration isolators and acoustic barriers.
10. Implement administrative controls and safe work procedures.
11. Create comprehensive noise and vibration control plans tailored to specific industries.
12. Educate employees through training and awareness programs.
13. Evaluate the ROI and productivity impact of noise and vibration reduction initiatives.

Target Audience

1. Health and Safety Officers
2. Industrial Engineers
3. Facility Managers
4. Maintenance Supervisors
5. Construction Site Managers
6. Manufacturing Plant Operators
7. Occupational Hygienists
8. Compliance and Regulatory Inspectors

Course Duration: 5 days

Course Modules

Module 1: Fundamentals of Noise and Vibration

- Definitions and key concepts
- Types of workplace noise and vibration
- Health effects and long-term consequences
- Measuring exposure levels using sound level meters
- Thresholds and regulatory exposure limits
- **Case Study**: Assessing noise exposure in a bottling plant

Module 2: Risk Assessment and Measurement Tools

- Conducting noise surveys
- Using dosimeters and accelerometers
- Noise mapping techniques
- Creating a risk profile
- Interpreting measurement data
- **Case Study**: Vibration assessment in a mining operation

Module 3: Legal Standards and Compliance

- Overview of OSHA and ISO 9612
- EU Directive 2003/10/EC compliance
- Employer responsibilities and legal frameworks
- Penalties for non-compliance
- Creating audit-ready documentation
- **Case Study**: Legal case involving noise exposure violations

Module 4: Engineering Controls and Design Solutions

- Sound enclosures and barriers
- Vibration isolators and dampers
- Acoustic materials and design
- Equipment retrofitting
- Industrial layout optimization
- **Case Study**: Noise control retrofitting in a textile factory

Module 5: Administrative and PPE Controls

- Rotational work schedules
- Designated quiet zones
- Selection and use of PPE
- Training programs for employees
- Record-keeping and health surveillance
- **Case Study**: Implementing PPE and job rotation in construction

Module 6: Audiometry and Health Surveillance

- Hearing conservation programs
- Audiometric testing protocols
- Identifying early signs of hearing damage
- Employee medical evaluations
- Health data privacy and compliance
- **Case Study**: Long-term health monitoring in automotive assembly

Module 7: Noise and Vibration in Specific Industries

- Construction and heavy machinery
- Manufacturing and production lines
- Transportation and logistics
- Maritime and offshore sectors
- Agriculture and food processing
- **Case Study**: Vibration control in logistics and warehouse operations

Module 8: Action Plans and Reporting

- Developing a comprehensive control plan
- Setting SMART objectives and KPIs
- Internal reporting and stakeholder communication
- ROI analysis and budgeting for control strategies
- Periodic evaluation and continuous improvement
- **Case Study**: End-to-end implementation of a noise control plan in an airport

Training Methodology

- Instructor-led interactive sessions
- Group workshops and breakout activities

- Real-world simulations and hands-on demonstrations
- Case-based learning with industry-specific scenarios
- Final assessment and knowledge checks

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

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