



OHTA

Occupational
Hygiene Training
Association

OHTA503 NOISE MEASUREMENT AND ITS EFFECTS

Course Description



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[Occupational Hygiene
Training Association \(OHTA\)](https://www.linkedin.com/company/occupational-hygiene-training-association-ohta/)



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<https://ohtatraining.org>

OHTA503 - NOISE MEASUREMENT AND ITS EFFECTS

This course provides students with the knowledge and skills to identify, evaluate, and manage noise exposures and to understand the impact of noise on human health. Students learn a detailed, step-by-step approach to performing assessments of noise in the workplace and how to evaluate measurement results in relation to compliance standards and/or best practices. In this latest version, the OHTA503 now also introduces environmental noise with examples of community noise regulations in various countries. The course is suitable for Occupational Health and Safety (OHS) generalists, facilities managers, Occupational Hygiene (OH) technicians, occupational physicians and allied health professionals, safety teams, and OH service providers. It has been delivered by OHTA approved training providers for over 10 years. The course manual was reviewed and updated in 2023 by international OH experts to ensure that it reflects current science and technology and best practices.

On successful completion of the course, students should be able to...

- Understand the physics of sound and the human response to sound
- Describe the consequences of excessive noise exposure to health and well-being
- Conduct various types of noise surveys involving on-worker monitoring, sound contour maps, or predictive noise exposure modeling
- Perform noise measurements using acoustical instrumentation such as sound level meters and noise dosimeters and assess the results relative to compliance standards and/or best practices
- Understand noise exposure criteria that define the maximum allowable noise levels and durations that workers can be exposed to without causing permanent hearing damage.
- Choose and evaluate the effectiveness of engineering controls, administrative controls, or hearing protection devices.
- Recognize when audiometric testing is warranted based on the outcome of the exposure assessment
- Develop a Hearing Conservation Program
- Assess noise in the general environment for compliance to community noise standards

Course Design

- Delivered as a 5-day on-line or classroom training program
- On-line student examination with multiple choice questions
- Translation of the exam into the native language of students may be available
- Student manuals are available for free download in English and other languages at <https://ohtatraining.org/students/fmanuals/manuals/ohta503/>
- Materials supplied to trainers include student manual, set of course slides, daily questions and answers for class discussion and practical exercises.

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Training providers for the OHTA503 may include national IH/OH associations, IH/OH organizations and companies such as professional consultancies. Training providers must have an OHTA Training Director with an IH/OH certification recognized by the National Accreditation Recognition (NAR) Committee of the International Occupational Hygiene Association (IOHA) such as CIH, ROH, COH, etc. Individual trainers working under the Training Director do not have to be certified but should be knowledgeable in the course content.

Trainers set their course fees in local currency and keep those fees. The only fees paid to OHTA are for the mandatory on-line exam which is 100 £ (about 130-135 USD) per student. The trainer application is available at <https://ohtatraining.org/trainers/apply/>

Additional Study Options

The OHTA503 course can be the first step to more training in the core aspects of OH leading to the ICertOHTA qualification. If you are pursuing a career in OH, see the list of OHTA courses and the qualification framework at <https://ohtatraining.org/students/framework>

Next Steps

To find an in-person course in your area or an on-line course suitable for your time zone and language, see the Course Calendar at <https://ohtatraining.org/students/courses/>

For more information, please contact the OHTA Secretariat team@ohtatraining.org

Testimonials

Look at what OHS professionals are saying about the OHTA503 course:

"As an occupational hygiene trainer in South Africa, I have found the OHTA503 Noise – Measurement and Its Effects course to be an invaluable resource for developing both technical competence and professional confidence not only for OH professionals but for those willing to increase their knowledge on workplace health and exposure. The course manual is comprehensive, practical, and closely aligned with the knowledge and skills required in real workplace noise assessments. Our delegates consistently appreciate the strong balance between theory and practical application, and many report that they can immediately apply what they have learned in their own workplaces. In a region where there is a growing need for high-quality occupational hygiene training, OHTA 503 provides an internationally recognized standard that significantly strengthens professional practice. I am proud to be an OHTA trainer!"

Naadiya Mundy (South Africa)
Registered Occupational Hygienist, SAIOH
Masters: Environmental Management, UKZN
Managing Director NEXAM Pty Ltd.

Testimonials

Look at what OHS professionals are saying about the OHTA503 course:

"The OHTA503 course and manual explain the link between the physics of noise, why health effects occur, and why we measure noise in the way we do. Alongside hearing conservation, noise control and hearing protection, the course provides the whole picture of noise risk management. With this approach, students gain the knowledge necessary for comprehensive occupational hygiene noise assessment. Students consistently praise the hands-on exercises and meaningful homework that strengthen learning and note how impactful it is to be taught by seasoned hygienists bringing real-world experience to the class."

**New Zealand Occupational Hygiene Society (nzohs.org.nz);
OHTA Trainers since 2013**

"Delivering the OHTA 503 Noise course was a deeply rewarding experience, with feedback from our recent cohort highlighting its transformational impact. Delegates shared that the instruction was exceptionally insightful and well-presented, enlightening them significantly in their day-to-day occupational hygiene work. Many specifically noted how the practical exercises helped them understand their Sound Level Meters so thoroughly that they now have complete confidence deploying equipment in the field. Seeing our students build immediate, real-world noise assessment skills proves the incredible value of this OHTA module in protecting worker health."

**Emmanuel Ode, ICertOHTA (Nigeria)
Training Coordinator
Gradi Health and Safety Ltd (gradihs.org)**