NEBB S&V Seminar

Sound & Vibration Measurement

(S&V) Seminar

July 26-28, 2027

Gaithersburg, Maryland

19.50

APPROVED CECs

WHO SHOULD ATTEND

- Individuals interested in pursuing NEBB certification in sound and/ or Vibration measurement
- Professionals from other disciplines who want to expand their knowledge of sound and vibration as it relates to their business
- Firms interested in learning more about sound and vibration
- Engineers and architects interested in expanding their knowledge of sound and vibration

SEMINAR LOCATION

Robert B. Gawne NEBB Training and Education Center
8575 Grovemont Circle
Gaithersburg, MD 20877

REGISTER BY

June 26, 2027

Meet Your Instructors

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Stuart McGregor, PE

Stuart McGregor, PE, is a senior acoustical engineer at Engineering Dynamics, Inc. He has 30 years of experience as an acoustical engineer and vibration analyst, for environmental and building projects. He is a member of NEBB's Sound and Vibration S&V Committee, NEBB Certified Professional S&V and ANSI CAT II Vibration Analyst certified (via the Vibration Institute). Stuart is active in the Rocky Mountain NEBB chapter and has been a co-instructor for NEBB CP and CT sound and vibration training seminars.

Chad Mathews

Chad Mathews is a principal at Air Technologies, Inc. in Austin, TX. He has 20 plus years of experience in the TAB industry and maintains TAB, SM, and VM CP certifications. He is a member of NEBB's Sound and Vibration Committee. He is active in Texas NEBB and has been a co-instructor for NEBB CP and CT sound and vibration training seminars.

About The Seminar

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NEBB's Sound and Vibration Seminar is designed to prepare professionals from all disciplines in the correct methods to properly perform consistent, repeatable readings to meet sound and/or vibration specifications for projects.

Sound and vibration measurement is a valuable service for building owners who strive to maintain a quality environment and minimize maintenance costs. Sound and vibration measurement have been shown to provide tangible cost savings.

Sound measurement and analysis play an important role in providing acceptable space usage for various commercial, manufacturing, and industrial activities.
Vibration measurement and analysis is a proven predictive maintenance activity that
helps minimize repair and downtime costs for rotating machinery.

19.50 Approved Continuing Education Credits

Learning Objectives

- Learn how to satisfy the specification and customer requirements and know how to perform accurate repeatable sound and vibration measurements.
- Learn basic troubleshooting and diagnostic knowledge.

Seminar & Exam Agenda

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Monday, July 26

6.5 CECs
Lunch provided

7:30 am	Registration
8:00 am - 4:30 pm	Physics of Sound, Practice making sound level measurements, Practice Problems. Sound level Instrumentation, Calibration of Sound Level Instrumentation, Sound Level Measurement, Analysis of Sound Measurement, NEBB Documentation Procedures, Practice Problems

Tuesday, July 27

6.5 CECs
Lunch provided

8:00 am - 12:00 pm	Review, Practice making sound level measurements, Practice Plotting NC and RC Charts.
12:30 pm - 4:30 pm	Vibration Fundamentals, Acceleration, Velocity, Displacement, Simple Harmonic Motion, Single Degree of Freedom Systems, Relationship between Acceleration and Velocity, Displacement Phase.

Wednesday, July 28

6.5 CECs
Lunch provided

8:00 am - 4:30 pm	Vibration Unit Conversions Calculations, Vibration Instrumentation, Overall vibration level meters, Spectrum Analyzers, Frequency Range, Bandwidth, Lines of Resolution, Frequency Resolution, Windowing, Transducer Sensitivity, Accelerometer, Velocity Transducers and Displacement Sensors.

Thursday, July 29

Optional Exams
Lunch not provided

8:00 am - 12:00 pm	Sound Optional Written & Practical Exams.
1:00 pm - 4:30 pm	Vibration Optional Written & Practical Exams

Travel & Location

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Review travel arrangements before registering. Hotel and transportation costs are not included in the seminar fee.

Seminar Location

Robert B. Gawne NEBB Training and Education Center
8575 Grovemont Circle
Gaithersburg, MD 20877

Key Dates

Arrival: Sunday, July 25, 2027

Seminar: July 26-28, 2027

Optional exams:
Sound and vibration exams: July 29

Airports

Ronald Reagan Washington National (DCA)
30 miles / about 37 minutes
Average taxi fare: $80

Dulles International (IAD)
33 miles / about 34 minutes
Average taxi fare: $80

Baltimore/Washington International (BWI)
40 miles / about 44 minutes
Average taxi fare: $100

Nearby Hotels

Reserve directly with your chosen hotel.

Homewood Suites Gaithersburg

805 Russell Ave
Gaithersburg, MD 20879
301-670-0008

Hilton Garden Inn & Homewood Suites by Hilton

14975 Shady Grove Rd
Rockville, MD 20850
240-507-1800

Registration & Fees

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REGISTRATION DEADLINE

June 26, 2027

Registration and payment must reach NEBB by the deadline. Pre-registration and payment are required. Registrations are first come, first served.

Register Online

1. Log into your Certelligence portal
2. Scroll to “My Events”
3. Select the seminar and register

$1,600

Instruction, breaks and lunch as scheduled. Candidacy and exam fees are separate.

Publication Fees

PUBLICATION	NEBB / NON-NEBB
Procedural Standards for the Measurement of Sound and Vibration	**$125 / $150**
Sound and Vibration Design Analysis	**$90 / $130**
Sound Measurement Home Study Course	**$150 / $200**

Cancellation Policy

Cancellation by registrants, regardless of reason, will be subject to a $250 service charge to cover NEBB’s expenses. A refund of the prepaid registration will be made less the $250 service charge. No Shows or late cancellations (those who registered for the seminar who do not cancel at least 14 days prior to the seminar and subsequently do not attend the course) will forfeit the entire registration fee unless a replacement can be found. NEBB reserves the right to cancel any seminars having insufficient registrants, in which case, all prepaid registration fees will be refunded in full. Please advise NEBB and your hotel of your cancellation as soon as possible.

Before You Attend

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Recommended Publication

- Procedural Standards for the Measurement and Assessment of Sound & Vibration
- Sound & Vibration Design and Analysis
- Sound Measurement Home Study Course

Read the listed publications before attending. The instructor expects working knowledge of their requirements.

Publications are available at www.nebb.org

Optional Exams

If you are interested in testing after the seminar, please email candidacy@nebb.org for the candidacy application material. Pre-approval and payment are required before June 26, 2027.