

# Fume Hood Performance Testing (FHT) Seminar

November 1-2, 2021

Kansas City, MO

## This Seminar is Designed for:

- Biosafety professionals
- Laboratory managers
- Industrial hygienists
- Researchers and fume hood users
- Facility engineers, architects, and certifiers for fume hoods
- Others with a strong background in fume hood work who consider that an extensive review in a classroom setting will enhance their technical education.
- Individuals who are gathering information about the testing procedures performed by NEBB Certified Professionals to assist in the preparation of testing criteria and the auditing of Fume Hood Performance Testing. No previous knowledge or equipment is necessary to attend the seminar.
- Individuals who want a refresher course before taking the NEBB FHT Certified Professional exams
- Business Owners/Executives who are considering the opportunities available for expanding into the fume hood testing market.

## Location:

**Labconco**

8811 Prospect Ave

Kansas City, MO 64132

Registration Deadline:

**October 18, 2021**





## Our COVID-19 Response Plan

Considering of COVID-19, NEBB has taken several proactive steps to help ensure the health and safety of our attendees and instructors. Precautions such as constant sanitization of the seminar area, increased attention to high-touch areas in the rooms, limits on the number of attendees during the seminar and protective gear for our Instructors and are in place. NEBB also will be practicing social distancing and maintaining 6 feet apart.

### Responsibilities for Each Attendee:

- If you are experiencing any symptoms of COVID-19 like running a fever, coughing or shortness of breath, please do not attend the seminar.
- You have been exposed to someone who has tested positive for COVID-19 in the last 14 days.
- You have a compromised immune system or are considered “high risk.”
- Masks are required during the seminar and gloves can be worn if desired.
- Sanitize hands prior to entering seminar location.
- Avoid shaking hands or engaging in any unnecessary physical contact.
- Signing a waiver prior to the seminar





## Seminar Instructors:



**Mike Kelly**

### **Air Filtration Management**

Mike is the Project Manager for Air Filtration Management and is the chair of the NEBB FHT Committee. He is a NEBB Certified FHT & CPT Professional with over 35 years of experience in testing fume hoods, cleanrooms, biosafety cabinets and HEPA filtered equipment.



**Bohdan (Don) Fedyk**

### **Self Employed**

Don has over 35 years of experience in design, application, and verification of HVAC laboratory systems and containment devices transitioning into the testing & validation field. He had direct involvement in many projects across a wide variety of HVAC applications with emphasis on the safety in the laboratory environment. He is a member of both the ASHRAE SPC 100 and NEBB FHT Committees and is a NEBB Certified Professional in multiple disciplines: FHT, TAB, BSC, and S&V.





## About This Seminar:

**Chemical fume hoods are one of the most important items of safety equipment present within the laboratory. It is vitally important they are properly used and maintained. Chemical fume hoods serve to control the accumulation of toxic, flammable, and offensive vapors by preventing their escape into the laboratory atmosphere. Fume hoods provide physical isolation and containment of chemicals and their reactions, thus serving as a protective barrier between laboratory personnel and the chemical or chemical process within the fume hood. Chemical fume hoods are an important means of protecting personnel from chemical exposure and ensure compliance with OSHA and other mandated EH&S regulations.**

The seminar will provide attendees with an overview of laboratory HVAC concepts, including discussions of environmental safety enclosures, such as fume hoods, biosafety cabinets, and other containment enclosures. Instructors will review various HVAC systems currently employed in laboratory design. The basic operation of fume hoods and other containment enclosures and their respective applications and features will be presented. The NEBB *Procedural Standard for Fume Hood Performance Testing* will be reviewed with emphasis on the requirements for NEBB Firm certification, NEBB Certified Professional certification, instrumentation, as well as reporting and testing requirements. Detailed presentations will be provided for the three primary fume hood performance tests: Airflow Velocity Tests, Airflow Visualization Tests and Tracer Gas Containment Tests. Instructors will also provide hands-on demonstrations of these performance tests. Proper testing procedures will be emphasized, along with reporting requirements and the evaluation of test results.



*This Seminar has been approved for 12 Continued Education Credits*



## **Monday, November 1, 2021**

**(6.5 CECs)**

**8:00 am:** Registration

**8:30 am – 5:00 pm:** Introduction to Fume Hood Performance Testing, HVAC Basics, Fume Hood Types, Fume Hoods Vs Bio-safety, Cabinets, Safety and Protocol, Overview of Testing Requirements, Review of FHT Protocol, Airflow Velocity Testing and Hands-on Demonstration

*(Lunch Provided)*

## **Tuesday, November 2, 2021**

**(5.5 CECs)**

**8:00 am – 4:15 pm:** Airflow Visualization Testing and Hands-On Demonstration, Tracer Gas Containment Testing and Hands-On Demonstration, Reporting, and Seminar Review Session.

*(Lunch Provided)*

## **Wednesday, November 3, 2021**

**8:00 am – 11:00 am:** FHT Written Exam (Open Book)

**11:30 am – 6:00 pm:** FHT Practical Exams

## **Thursday, November 4, 2021**

**7:00 am – 6:00 pm:** FHT Practical Exams



## Travel Information:

We recommend all attendees that are unfamiliar with the seminar location or require travel from another location review the following information prior to registering for this seminar.

### Hotels:

Attendees must reserve directly with the hotel of their choice. Below is a short list of hotels in close proximity to the training center. Hotel and transportation costs are not covered by the seminar registration fee.

#### Hampton Inn & Suites Kansas City

Country Club Plaza, 4600 Summit Kansas City, MO  
Tel: 816.448.4600

#### Sheraton Suites Country Club Plaza

770 W 47th Street Kansas City, MO  
Tel: 816.931.4400

#### Marriott-Kansas City Plaza

4445 Main Street Kansas City, MO  
Tel: 816.531.3000

#### Embassy Suites Hotel Kansas City Plaza

220 West 43rd Street Kansas City, MO  
Tel: 816.756.1720

### Airport:

One airport serves the Kansas City area and that is Kansas City International Airport (MCI). There are plenty of ground transportation options at Kansas City International Airport.

## Important Dates and Times:

### Arrival in Kansas City, MO

Sunday, October 31, 2021

### Seminar Dates:

Monday-Tuesday, November 1-2, 2021

### Optional FHT Written Exam & Practical Exam

Wednesday, November 3, 2021

### Optional FHT Practical Exam:

Thursday, November 4, 2021

## Seminar Location:

Labconco

8811 Prospect Ave

Kansas City, MO 64132

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# NEBB NOV FHT SEMINAR REGISTRATION FORM

**Registration form and payment must reach the NEBB office on or before October 18, 2021.**

Pre-registration and payment of fees are necessary to ensure your participation in the seminar.

Three ways to register:

1. Online through the [Certelligence Portal](#)
2. Email this form to [training@nebb.org](mailto:training@nebb.org), or
3. Mail this form to: NEBB, 8575 Grovemont Circle, Gaithersburg, MD 20877.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Phone/Cell: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Chapter: \_\_\_\_\_

Please list any dietary restrictions:

\_\_\_\_\_

## Seminar Fees (Check all that apply)

\$1300 FHT Seminar Registration Fee

## Publication Fees

\$95 NEBB/ \$125 Non-NEBB: NEBB FHT  
Procedural Standards

(Please indicate hard copy or electronic)

## Payment Method

Check enclosed made payable to NEBB

Visa  MasterCard  American Express

Name on Card \_\_\_\_\_

CC Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

Security Code \_\_\_\_\_

Signature \_\_\_\_\_

\$ \_\_\_\_\_ **Total Amount Paid**

*\*Prices for publications do not include shipping and handling*

**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.





## Recommended Publications:

To achieve the best learning results, it is highly recommended that attendees **read the following publications BEFORE** attending the seminar:

- *NEBB Procedural Standards for Fume Hood Performance Testing – 2<sup>nd</sup> Edition*
- *ANSI/ASHRAE 110 - 2016 Methods of Testing Performance of Laboratory Fume Hoods*
- *ANSI/AIHA Z9.5 – 2012 Laboratory Ventilation*

Instructor assumes that all attendees have a thorough working knowledge of the requirements of these publications prior to attending the seminar. Publications can be purchased online at [www.nebb.org](http://www.nebb.org).

## Important Reminders:

1. Registrations will be filled on a “first come-first served” basis. Please note that class sizes are limited due to Covid Social Distancing Protocol.
2. Seminar fees include course instruction, lunch, am/pm breaks.
3. Seminar fees do not include anything pertaining to certification.
4. For information on certification or exams please contact [certification@nebb.org](mailto:certification@nebb.org).



## Questions About This Seminar?

Call 301-977-3698 or email [training@nebb.org](mailto:training@nebb.org)