

## M.C. Townsend Associates, LLC

<https://mctownsend.com>

### NIOSH-APPROVED SPIROMETRY TRAINING *CNE, CRCE Approved*

#### NIOSH-Approved Spirometry

September 11-13, 2017 (*Pittsburgh, PA*)\*  
September 27-29, 2017 (*Fond du Lac, WI*)  
October 11-13, 2017 (*Baltimore, MD*)  
November 13-15, 2017 (*Pittsburgh, PA*)\*

#### NIOSH-Approved Spirometry Refresher

September 26, 2017 (*Fond du Lac, WI*)  
October 10, 2017 (*Baltimore, MD*)  
November 1, 2017 (*Columbus, OH*)

#### Respirator Fit-Test Workshop

November 16, 2017 (*Pittsburgh, PA*)

#### NIOSH-Approved Web- Based Spirometry Training

Approved for Nursing Contact Hours

\* Followed by CAOHC-approved  
Hearing Conservation Workshop/ Recertification

## NIOSH-Approved Spirometry (Full Course)

### FULL COURSE DESCRIPTION

This comprehensive 2½ day course is designed for health professionals who conduct spirometry tests and/or interpret test results in industrial and clinical settings. The course is appropriate for those with no spirometry background as well as for experienced spirometry users. Both groups increase their understanding of spirometry by participating in the course.

Lectures, discussion, and practice sessions present pulmonary pathophysiology, types of spirometers, how to conduct spirometry tests, testing and equipment errors, supervised use of the spirometer, measurement of the spirogram, and interpretation of results. OSHA standards and *2013 Guidance on Best Practices for Occupational Spirometry Testing*, the 2005 American Thoracic Society (ATS) Spirometry and 2011 American College of Occupational and Environmental Medicine (ACOEM) Spirometry Update Guidelines are reviewed.

The course strives to teach what the testing and interpretation recommendations/requirements are, as well as why the recommendations and requirements were made.

All lectures are given by Dr. Mary Townsend, based on her extensive experience with real-world spirometry and in-depth knowledge of various spirometers, acquired through consulting with many and varied clients. Over half of the class time is devoted to supervised student practice of the techniques that are presented. Individual attention is ensured by maintaining the student/instructor ratio at 6:1 or better. All practice session assistants are NIOSH-approved and have extensive spirometry experience.

Practical and written examinations are given on the last half-day of the course, and a certificate, valid for 5 years, is awarded if performance is satisfactory.

### CONTINUING EDUCATION CREDITS

**NIOSH-approved Spirometry (Approval #101):**

- **19.5 contact hours** approved by American Association of Occupational Health Nurses (AAOHN), an accredited approver by American Nurses Credentialing Center's Commission on Accreditation.
- **21.82 contact hours CRCE**

### NIOSH-APPROVED SPIROMETRY REGISTRATION INFORMATION

Course tuition of **\$585** includes a comprehensive workbook and reference materials, a copy of *OSHA's 2013 Guidance on Occupational Spirometry Testing Best Practices*, continuing education credit, refreshments, and lunch (in Pittsburgh only).

**Class size is limited to 24, so please register early.** Checks, VISA, MasterCard, and American Express are accepted - **students are enrolled in the order in which registration and tuition are received.** Confirmation is emailed upon receipt of tuition.

Tuition is fully refundable if canceling 5 or more weeks before the course date. A \$50 service charge is deducted if canceling 3-5 weeks before the course date. **No refunds are issued if canceling less than 3 weeks before the course date since expenses are fixed.** But you may always send an alternate in your place or, if we find a replacement for your registered class date, you may transfer to a later course.

### COURSE MATERIALS

Please bring a calculator and several test results, with tracings, from your spirometer.

# NIOSH-Approved Refresher

## COURSE DESCRIPTION

This NIOSH-approved Spirometry Refresher course updates health professionals who conduct and/or interpret results of spirometry tests. **Technicians can extend their certifications for 5 years by completing this course up to 5 years and 7 months after their previous NIOSH-approved course.**

All lectures are given by Dr. Mary Townsend. Topics include:

- OSHA standards and Best Practice Guidance, ATS/ERS and ACOEM Spirometry Guidelines
- Spirometry technique and testing errors
- Interpretation: obstructive, restrictive patterns
- Review problem graphs from QA samples
- Spirometer calibration and cal checks
- Types of spirometers: pluses and minuses

## CONTINUING EDUCATION CREDITS

### NIOSH-approved Spirometry Refresher:

- **7.5 nursing contact hours**, approved by AAOHN, an accredited approver by American Nurses Credentialing Center’s Commission on Accreditation.

## REFRESHER COURSE FEES

Course tuition of **\$345** includes a comprehensive handout, continuing education credits, lunch (in Pittsburgh), refreshments, and a *NIOSH-recommended critique of 5 spirograms for technical quality*. **Please submit your initial NIOSH-approved course certificate prior to the course to demonstrate your eligibility to register.**

**REGISTRATION POLICIES:** Checks and credit cards are accepted - *students are enrolled in the order in which registration and fees are received* - confirmation is sent upon receipt of tuition. Tuition is fully refundable if canceling 5 or more weeks before the course. A \$30 service fee is deducted if canceling 3-5 weeks before the course. No refunds are issued if canceling less than 3 weeks before the course. However, you may always send an alternate in your place.

# Respirator Fit-Test Workshop

## COURSE DESCRIPTION

This one-day practical fit-testing workshop is **approved for 7.5 nursing contact hours** approved by AAOHN, an accredited approver by American Nurses Credentialing Center’s Commission on Accreditation.

The course presents theory and hands-on participant practice with widely used quantitative (QNFT) and qualitative (QLFT) fit-testing methods. All lectures are given by Craig Colton, CIH. Topics include:

- Overview of OSHA Respiratory Protection Standard (29 CFR 1910.134)
- QLFT vs. QNFT fit-testing considerations
- QLFT (saccharin, bitrex) and QNFT (Portacount and Portacount Companion for N95 filtering facepieces) demonstration and hands-on participant practice
- Powered Air Purifying Respirators (PAPRs)

## COURSE FACULTY

Craig Colton, CIH, has worked in the respiratory protection field for more than 30 years, at OSHA and in the 3M Personal Safety Division. He edited the AIHA Respiratory Protection Manual, is a member of the ANSI Z88 Respiratory Protection Committee and the Z88.10, Z88.12, and Z88.14 subcommittees, and consults with NIOSH and OSHA on respirators.

## FIT-TESTING WORKSHOP FEES

Course tuition of **\$410** includes course materials, continuing education credits, and coffee.

# Spirometry Course Director

Dr. Mary Townsend is an independent pulmonary function testing and epidemiology consultant, and Adjunct Faculty at the Graduate School of Public Health, University of Pittsburgh. She consulted with OSHA to develop the *2013 Guidance on Best Practices for Occupational Spirometry Testing*. ACOEM gave her the 2013 Health Achievement Award in Occupational Medicine. She presents frequent seminars at ACOEM, AAOHN, and ATS national meetings. She is an experienced, enthusiastic teacher of NIOSH-Approved Spirometry courses, and is course director for Johns Hopkins University as well as for M.C. Townsend Associates, LLC. She has consulted and taught for General Motors, Dow Chemical, Alcoa, BASF, OSHA, U.S. Library of Congress, NIOSH, and other clients. She was a Visiting Scientist and Research Epidemiologist at NIOSH, and an Assistant Professor of Epidemiology at the University of Pittsburgh.

**Customized on-site instruction** is available for groups: a minimum number is required. Please call for more information. **(412) 343-9946**

## WEB-BASED SPIROMETRY TRAINING

- **NIOSH-Approved Web-Based Refresher Course** – for eligible Nurses and Technicians conducting tests – **9.5 contact hours**, approved by AAOHN. Fee is **\$340** – to determine eligibility and register: [www.mctownsend.com](http://www.mctownsend.com).
- **For Physicians** and health care professionals interpreting results and managing programs (*non-certification*) – **\$180**.

**SPIROMETRY AND AUDIOMETRY TRAINING IN ONE WEEK!** CAOHC-approved Hearing Conservation Workshop follows spirometry courses. Call Audiometric Baseline Consulting 412/831-0430.

# Registration Form: 2017

**Respirator Workshop** \_\_ November 16

**NIOSH Refresher** \_\_ Sept. 26 \_\_ Oct. 10 \_\_ Nov. 1

**NIOSH-Approved Spirometry (Full Course)**

\_\_Sept 11-13 \_\_Sept 27-29 \_\_Oct 11-13 \_\_Nov 13-15

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ ZIP \_\_\_\_\_

Telephone (\_\_\_\_) \_\_\_\_\_

E-mail \_\_\_\_\_

**Model & name of spirometer currently used:**

Payment: \_\_ Check \_\_ Visa/MasterCard/AMEX

\_\_ \$585 NIOSH Full Course \_\_ \$345 Refresher

\_\_ \$410 Fit-Testing \_\_ \$340 Web Refresher

\_\_ \$180 Web-based (non-certification)

Card # \_\_\_\_\_

Billing address \_\_\_\_\_

Billing Zip code \_\_\_\_\_

CVV2 Code \_\_\_\_\_ Expires \_\_\_\_\_

*Please make checks payable and mail to:*

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