Sampling and Instrumentation

Course Overview

Evaluation of workplace chemical and physical hazards is a critical function of industrial hygiene and health and safety professions. To evaluate and control exposures, these hazards must first be recognized and measured in the work environment. From a regulatory standpoint, these measures of exposure, or lack thereof, can come under legal scrutiny and expose employers and organizations to regulatory actions if performed improperly. Foremost, worker health and safety are at stake. Proper selection of sampling and instrumentation methods, development of sampling strategies, and quality assurance and quality control (QA/QC) are all critical components of an effective health and safety program. Air sampling devices, sampling trains, and flowmeters; Direct-reading instruments for gases, vapors, and particles; Noise survey and dosimetry instrumentation; Heat stress monitors. This workshop will teach participants to effectively develop the tools and skills necessary to survey and evaluate workplace environments for exposures to particles, gases and vapors, noise, and heat stress. Hands-on demonstrations and exercises will ensure participants can apply the principles covered in this course.

NOTE: Participants will be required to bring a scientific calculator. It is highly recommended that participants bring a laptop computer with Microsoft Excel and internet access. Templates for statistical measures and graphing will be provided and used in class. Online and/or CD-ROM databases will also be used in the class. Participants are required to download a pdf of material that costs $18.39 which enrollees must pay on their own. Details on web page registration.

Faculty

ROBERT N. PHALEN, PhD, CIH

Robert N. Phalen is a Certified Industrial Hygienist and holds a doctorate in environmental health sciences with specialization in industrial hygiene from University of California, Los Angeles (UCLA). Dr. Phalen’s background includes over ten years experience in the practice of industrial hygiene, occupational safety, ergonomics and environmental health. He is an Associate Professor of Industrial Hygiene at University of Houston-Clear Lake (UHCL) and he is co-author of a textbook on air pollution science, Introduction to Air Pollution Science: A Public Health Perspective.
Learning Objectives (partial list):
Upon completion of the course, the participants should be able to:

• Use essential resources for selection of sampling and instrumentation

• Calibrate sampling and direct-reading instrumentation for particles and gases

• Calculate and perform essential QA/QC measures

Accreditation

• ABIH — This event contains 16.0 hours and may be eligible for ABIH CM credit. See ABIH web site for CM credit criteria.

• BRN — Provider approved by the California Board of Registered Nursing, Provider BRN #13555: 16.0 Contact Hours.

• REHS — 16 Contact Hours (1.6 CEUs) have been approved. The SCERC is an REHS Continuing Education Accrediting Agency approved by the California Department of Public Health.

• BCSP and Continuing Education Units — Eligible for 1.6 COC Points/CEUs.

Registration Information

Please see website - [erc.ucla.edu/ced](http://erc.ucla.edu/ced) - for payment terms

Standard Fee:  $479

Early Bird: (before 6/29/18) $299  ($180 Savings!)

Paying by credit card: All major credit cards accepted. Complete credit card information on registration form or call 310/206-2304.

Paying by check: Payable to University of California Regents

Phone registration: 310/206-2304. Fax registration: 310/794-9317

Online registration: [erc.ucla.edu/register](http://erc.ucla.edu/register)

Who We Are

The Southern California Education and Research Center is a NIOSH (National Institute for Occupational Safety and Health) ERC. It is one of 18 ERCs at major universities whose goal is to train occupational health and safety professionals, provide them with professional development, and train non-professionals in occupational health and safety best practices. It is located in the Fielding School of Public Health at the University of California, Los Angeles, and includes the Center for Occupational and Environmental Medicine at UC Irvine School of Medicine, the Occupational and Environmental Health Nursing Program at the UCLA School of Nursing and the Industrial Hygiene Program at UCLA.

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