

## Registration Fee

### **\$425 for regular registration**

\$325 for WORKSAFE IOWA, AgriSafe Network clinics and University of Iowa departments

Pre-registration is required. Registration fee includes binder with all course materials, instruction, written & practical examinations, completion certificate, continuing education credits, as well as continental breakfast, lunch, and refreshment breaks each day. **If you have special dietary requirements or want a vegetarian meal, please call Colleen Gross-Advani at 319.335.4684 by November 5.**

### **Cancellation/Refund Policy**

If registration is cancelled by November 5, 2009, the registration fee will be refunded, less a \$20.00 handling charge. No-shows or cancellations after November 5 will be invoiced the full registration fee.

For additional information contact Colleen Gross-Advani at 319.335.4684 or by e-mail at [colleen-gross-advani@uiowa.edu](mailto:colleen-gross-advani@uiowa.edu)

*Planning and speaker arrangements are the responsibility of the program director and course coordinator.*

### **Lodging:**

A block of hotel rooms is available at the **Country Inn & Suites**, 2571 Heartland Place, Coralville, IA 52241. Phone: 319.545.8464 or Fax: 319.545.6578. Group rate is **\$70.00** per night plus tax. Make your reservation before **October 28, 2009** and indicate the **block number is 0409CTROCC**.

### **Directions:**

Oakdale Hall is located on The University of Iowa Oakdale Campus, close to Coral Ridge Mall. We are minutes from Interstate 80, off exit 240 and Highway 965 (Coral Ridge Avenue). Detailed driving directions and a map of the area will be sent with your confirmation e-mail a week or so before the course.

*The University of Iowa prohibits discrimination in employment, educational programs, and activities on the basis of race, national origin, color, creed, religion, sex, age, disability, veteran status, sexual orientation, gender identity, or associational preference. The University also affirms its commitment to providing equal opportunities and equal access to University facilities. For additional information contact the Office of Equal Opportunity and Diversity at 319.335.0705.*

*Individuals with disabilities are encouraged to attend all University of Iowa-sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact Colleen Gross-Advani in advance at 319.335.4684.*

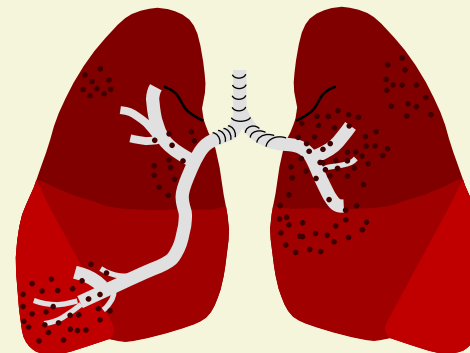
## **NIOSH-Approved Spirometry Training For Workers Screening Course**

**Thursday & Friday**

**November 12 & 13, 2009**

**at**

**Gold Room & M118, Oakdale Hall  
The University of Iowa Oakdale Campus  
Iowa City, Iowa**



*Jointly sponsored by:*

**The University of Iowa  
College of Public Health  
WORKSAFE IOWA**

**Heartland Center for Occupational  
Health & Safety**

*Spirometry equipment for this activity is  
provided by SensorMedics and University of  
Iowa Hospitals and Clinics*

### **Purpose**

This National Institute for Occupational Safety and Health (NIOSH) approved course is designed to provide a comprehensive theoretical framework combined with practical training necessary to conduct spirometry testing and screening for workers.

### **Intended Audience**

This course is intended for nurses, medical assistants and other health care professionals who are responsible for conducting spirometry in the workplace or in clinic settings.

## Educational Objectives

Upon completion of the course the participants should be able to:

- ◆ Describe basic physiology of the forced vital capacity maneuver and the determinants of airflow limitation with emphasis on the relation to reproducibility of results
- ◆ Identify five respiratory conditions which agricultural workers are at increased risk
- ◆ Identify five respiratory conditions which occupational workers are at increased risk
- ◆ Explain instrumentation requirements including calibration procedures, sources of error and their correction
- ◆ Demonstrate correct testing technique including subject coaching, recognition of improperly performed maneuvers, and the corrective actions
- ◆ Demonstrate data quality with emphasis on reproducibility
- ◆ Demonstrate proper use of equipment under supervised conditions
- ◆ Demonstrate measurement of tracing and calculations of results
- ◆ Define OSHA protocol for respiratory fit testing according to the US Dept. of Labor, OSHA standards, 29 CFR 1910.134
- ◆ Recognize the proper respirator fit testing techniques on NIOSH/MSHA approved dust masks and cartridge respirators

## Course Technical Directors

- ◆ **James A. Merchant, MD, DrPH**, Professor, Department of Occupational & Environmental Health, College of Public Health; Professor, Department of Internal Medicine, Roy J. and Lucille A. Carver College of Medicine, The University of Iowa, Iowa City, IA
- ◆ **Jeanette Shaffer, RRT, RCP, CPFT**, Senior Respiratory Therapist, Respiratory Care, University of Iowa Hospitals and Clinics, Iowa City, IA

## Course Faculty

- ◆ **Julie A. Davis, RRT, CPFT**, Staff Therapist, Diagnostic Division of the Respiratory Care Department, University of Iowa Hospitals and Clinics, Iowa City, IA
- ◆ **Kimberly J. Gordon, MSN, MA, RN, COHN-S, FAAOHN**, Center Coordinator and Director, Continuing Education & Outreach, Heartland Center for Occupational Health & Safety, College of Public Health, The University of Iowa, Iowa City, IA
- ◆ **Susan Hanken, BBA, RRT, CHT**, Respiratory Care Manager, Pulmonary Diagnostics/Hyperbaric Medicine, University of Iowa Hospitals and Clinics, Iowa City, IA
- ◆ **Patrick G. Hartley, MB, BCh, BAO, MPH**, Professor (Clinical) of Internal Medicine, Division of Pulmonary Diseases, Critical Care and Occupational Medicine, Roy J. and Lucille A. Carver College of Medicine; Medical Director, University Employee Health Clinic & Occupational Medicine Clinic, University of Iowa Hospitals and Clinics, Iowa City, IA

## Continuing Education Credits

The University of Iowa College of Nursing is an Iowa Board of Nursing Approved Provider: Number 1. This is a 20.1 contact hours program. The Iowa Board of Nursing requires full-time attendance for CEU award.

## AGENDA

### Thursday, November 12, 2009 (Gold Room & M118)

- 7:15 am Check-in and continental breakfast
- 7:30 **Lecture: Overview of course**  
*Kimberly Gordon*
- 7:45 **Lecture: Pulmonary Anatomy and Physiology**  
*Patrick Hartley*
- 8:45 **Lecture: Occupational and Agricultural Lung Disease**  
*Patrick Hartley*
- 9:45 Break
- 10:00 **Lecture: Overview of Spirometry, Quality Assurance Program and Spirometry Technique**  
*Jeanette Shaffer & Sue Hanken*
- 11:30 **Lecture: Basic Spirometric Calculations, Predicted Normal Values, Changes in Follow-up Spirograms, and Standards for Spirometric Equipment** (*small groups*)
- 12:00 p.m. Lunch (provided)
- 12:30 **Lecture continued: Basic Spirometric Calculations, Predicted Normal Values, Changes in Follow-up Spirograms, and Standards for Spirometric Equipment** (*small groups*)
- 1:30 **Practicum: Use of Spirometric Equipment under Supervised Conditions** (*small groups*)
  - Calibration (volume- & flow-based)
  - Information gathering
  - Back extrapolated volume
  - Leak
  - 3 Acceptable/2 Repeatable
  - Coughing
  - Variable effort
  - Glottic closure
  - Early termination
- 3:00 Break
- 3:15 **Practicum continued: Use of Spirometric Equipment under Supervised Conditions** (*small groups*)
- 5:00 **Practicum: Simulation of Practical Exam and Assignment of Homework** (*small groups*)
- 6:00 Recess - **Homework assignment due at start of Day 2**

### Friday, November 13, 2009 (Gold Room & M118)

- 7:15 am Continental breakfast
- 7:30 **Lecture: OSHA's Respiratory Standard and Qualitative Fit-Testing** – *Kimberly Gordon*
- 9:00 Break
- 9:15 **Practicum: Use of Spirometric Equipment under Supervised Conditions** (*small groups*)
- 12:00 pm Lunch (provided)
- 12:30 **Final Practicum: Use of Spirometric Equipment under Supervised Conditions** (*small groups*)
- 1:30 **Lecture: Final review and questions**  
*Jeanette Shaffer & Sue Hanken*
- 2:00 Break
- 2:15 **Examinations: Written & Individual Practicum Exam** (with practicum instructor)
- 4:15 Course Evaluation/Adjourn

# NIOSH-Approved Spirometry Training for Workers Screening Course

Sponsored by:

The University of Iowa College of Public Health, WORKSAFE IOWA, Heartland Center for Occupational Health & Safety

**Thursday & Friday, November 12 & 13, 2009**

**Gold Room & M118, Oakdale Hall, The University of Iowa Oakdale Campus, Iowa City, IA**

## REGISTRATION FORM

Name \_\_\_\_\_ Profession \_\_\_\_\_

\* If requesting Nursing CEUs: Month of Birth \_\_\_\_\_ Day of Birth \_\_\_\_\_ Last 4 digits of SSN \_\_\_\_\_

\* Nursing License Number \_\_\_\_\_ Nursing License for the state of \_\_\_\_\_

Employer \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Iowa County \_\_\_\_\_ Telephone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail (*required for registration confirmation*) \_\_\_\_\_

Employer Type:  Business/Industry  Federal Gov't  State Gov't  Local Gov't  Foreign Country  Academic  Other

\* The University of Iowa needs this information for processing CEU records. No persons outside the University are routinely provided this information.

**Registration Fee: \$425**

*\$325 for WORKSAFE IOWA, AgriSafe Network clinics and University of Iowa departments*

**Enrollment is limited to 12 students. Registration deadline is November 5, 2009.**

**Make check payable to:** The University of Iowa  
Mail check & registration to: Colleen Gross-Advani  
The University of Iowa/WORKSAFE IOWA  
100 Oakdale Campus, #104 IREH  
Iowa City, IA 52242-5000  
Telephone: 319.335.4684 Fax: 319.335.4225  
E-mail: [colleen-gross-advani@uiowa.edu](mailto:colleen-gross-advani@uiowa.edu)

**We are unable to accept credit card payments**

**Meals:** Continental breakfast, lunch and refreshment breaks will be provided each day. **If you have special dietary requirements or want a vegetarian meal, please call Colleen Gross-Advani at 319.335.4684 by November 5.**

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