Cutting Edge Ergonomics

How to control ergonomic injuries with groundbreaking knowledge and new tools

Tuesday, May 9, 2017
8am-5pm

Shelby Center for Engineering Technology
Room 1120
345 W Magnolia Ave.
Auburn University
Auburn, AL 36849

Brought to you by
The Deep South Center for Occupational Health & Safety
Cutting Edge Ergonomics

This workshop will provide participants with the very latest information on how to assess risk and design jobs to reduce the risk of musculoskeletal disorders (MSDs). New research findings have shown that MSDs result from a fatigue failure process, and important implications of this research will be presented. Participants will learn to use new tools to better assess job risks and to improve job design.

Who should attend: Safety and Health Professionals, Engineers, Managers and Supervisors, Risk and Loss Control Personnel, Health Care Professionals, Occupational Health Practitioners, Industrial Hygienists, Manufacturing/Design Engineers, Union Representatives, Ergonomics Team Leaders, Corporate Medical Staff, Human Resource Professionals - Anyone with a role in workplace health and safety

Upon completion of this program, you should be able to:

• Recognize and understand the factors contributing to work-related musculoskeletal disorders (MSDs) and how these factors interact to increase risk
• Understand how personal factors affect MSD risk
• Apply innovative ergonomic job analysis techniques to better identify MSD risk through hands-on demonstrations
• Learn how to apply principles of successful ergonomics programs to reduce worker compensations costs and increase productivity and profitability

Schedule and Topics:

8:00 – 8:15 am Welcome and Faculty/Class Introductions (Thomas)
8:15 - 8:30 am The Burden of Musculoskeletal Disorders (Sesek)
8:30 - 9:15 am The Current State of Ergonomics Risk Assessment Tools (Sesek)
9:15 -10:00 am Evidence that MSDs are a Fatigue Failure Process (Gallagher)
10:00 -10:15am Break
10:15 -10:45am Implications of the Fatigue Failure Process (Gallagher)
10:45-11:15am Principles of Fatigue Failure Risk Assessment (Gallagher)
11:15 -11:45am Development and Validation of the LiFFT tool
11:45am -1:00pm Lunch (On your own)
1:00 - 2:00 pm Hands-on: Analysis of Low Back Risk (The LiFFT risk assessment tool)
2:00 -2:45 pm Hand-wrist Risk Exposure Assessment (Sesek)
2:45-3:00 pm Break
3:00-3:45 pm Shoulder Risk Assessment (Schall)
3:45-4:15 pm Work Methods Techniques for Improved Risk Assessment (Davis)
4:15-4:45 pm New Technologies and Exposure Assessment (Schall)
4:45-5:00 pm Wrap-up and Issue Certificates and CEUs to Participants (Thomas)
Course Faculty & Sponsor

Based on the expressed needs of practitioners in our region, we have brought together an experienced, dynamic faculty to give you an opportunity to learn from the best. These courses will be taught by the distinguished, award-winning faculty from Auburn University’s Samuel Ginn College of Engineering.

All Auburn University OSE faculty will participate in this course including:

- Dr. Richard Sesek, PhD, CPE (Ergonomics and Human Factors Expert)
- Dr. Sean Gallagher, PhD, CPE (Biomechanist and Ergonomic Modeling Expert),
- Dr. Jerry Davis, PhD, CPE, CSP (Systems Safety and Work Methods Expert),
- Dr. Robert Thomas, PhD, CPE, PE (Ergonomist and Emeritus Professor), and
- Dr. Mark Schall, PhD, AEP (Instrumentation and Field Data Collection Expert).

All instructors have significant experience with the application of ergonomic assessment methods. This course will be interactive, hands-on, and participatory. Participants will gain an understanding of how to observe, assess, and improve work in their facilities.

***Participants, please bring plenty of questions!!!

The Deep South Center for OH&S is one of 18 Education and Research Centers sponsored by the National Institute for Occupational Health & Safety (NIOSH). The Center works with industry, business, non-profits and academia to promote healthy and safe working conditions throughout the southeast. Academic and research programs are offered through the University of Alabama at Birmingham and Auburn University.

Course Location:

The workshop will be held at the Shelby Center for Engineering Technology, 1120 W. Magnolia Avenue, Auburn University, AL. The labs and classrooms at the Shelby Center are state-of-the-art. You will learn from the best faculty in the best setting! Internet access will be available. A listing of nearby hotels will be provided in your confirmation letter.

Registration Information:

Cutting Edge Ergonomics Workshop, how to control ergonomic injuries with ground-breaking knowledge and new tools is $395.00. You can take both the May 8th, Ergonomics, how to apply ergo principles in the real world & the May 9th course, for $ 695.00.

Registration fees must be received in advance.

Pay Online with Credit Card: www.uab.edu/dsc

Pay by Mail: Please print the registration form from the website, www.uab.edu/dsc, and mail with your check made out to the University of Alabama in Birmingham to the address below:

The Deep South Center for Occupational Health & Safety
University of Alabama at Birmingham
1720 2nd Avenue South, RPHB 520D
Birmingham, AL 35294-0022

This course has been approved for:
.7 CEUs by the Deep South Center for Occupational Health & Safety; both courses 1.4 CEU’s.

Any Questions: please call 205-934-7076 or email dsc@uab.edu