



HARVARD SCHOOL OF PUBLIC HEALTH

CENTER FOR CONTINUING PROFESSIONAL EDUCATION

Where theory informs practice and practice informs theory®

Ergonomics and Human Factors: Strategic Solutions for Workplace Safety and Health

September 13–16, 2010 • Boston, MA

...A Harvard School of Public Health safety program

This program provides a unique perspective on ergonomics and human factors in industry, ranging from musculoskeletal disorders (MSDs) of the low back and manual materials handling to human error and organizational factors. Workshops, case studies, and team exercises offer the opportunity to learn and apply skills in a multidisciplinary, team-oriented environment.

94% of participants rated the overall program as very good or excellent.

Who should participate

- Corporate medical staff
- Ergonomics team leaders
- Health and wellness managers
- Human resource directors
- Industrial hygienists
- Manufacturing, design, and safety engineers
- Occupational health practitioners
- Physical and occupational therapists
- Production managers
- Safety and health managers

Program highlights

- Design of workplace ergonomics programs
- Fundamental concepts in physical ergonomics
- Anatomy and physiology of low back pain and upper extremity disorders
- Analysis and control of risk factors for musculoskeletal disorders
- How to integrate workers with musculoskeletal disorders in the workplace
- Organizational ergonomics in implementing injury prevention programs
- Learn to control the extent of slip and fall injuries



"The program was excellent. I'm confident I can apply the knowledge gained to enhance my ergonomic program."

— Pat Carroll, RN, CDHN, CCM
Corporate Occupational
Health Nurse
ConvaTec, Inc.
Skillman, NJ

Register Today — visit www.hsph.harvard.edu/ccpe/ehf

“This program provided me with the scientific knowledge necessary to objectively manage ergonomics in our industries.”

— Alexander Buarque Cardoso, MD
Occupational Health Physician
SESI-Serviço Social Da Industria
Curitiba, Brazil

“With my thirty years experience in Occupational Health, I believe this program offers the ‘most bang for your buck.’ I benefitted from learning about accurate evaluations and tools professionals can use to establish a proactive and cost-effective safety program.”

— Leslie Holander, MSN, ANP-BC
Occupational Health
Nurse Practitioner
Brigham and Women’s Hospital
Boston, MA

This practical program is designed to give you the tools necessary to create cost-effective, comprehensive, and strategic solutions to your workplace ergonomic issues.

Alumni of this program have found that the broad curriculum allows them to take a more comprehensive approach to workplace safety and health problems.

91% of participants rated the program as meeting or exceeding their expectations.

Upon completion of this Harvard program, you will be able to:

- Recognize and control risk factors that contribute to work-related musculoskeletal disorders (MSDs)
- Initiate or improve ergonomics programs to control health and performance problems
- Perform basic analyses to identify, evaluate, and control MSDs

Continuing Education Credit

The Harvard School of Public Health is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The Harvard School of Public Health designates this educational activity for a maximum of *27.5 AMA PRA Category 1 Credit(s)*[™], subject to the final agenda. Physicians should only claim credit commensurate with the extent of their participation in the activity.

- 16 CECs, American Academy of Health Physics
- 4.51 Industrial Hygiene CM points, American Board of Industrial Hygiene
- 27.5 AIA/HSW learning units, American Institute of Architects.
- 2.7 CEUs, Harvard School of Public Health

The CEUs earned in this program may be applied toward:

- Board Certified Safety Professional (CSP) Continuance of Certification (COC) points
- Certified Hazardous Materials Manager (CHMM) Maintenance Points
- National Registry of Radiation Protection Technologists (NRRPT) Maintenance Points

Visit www.hsph.harvard.edu/ccpe/ehf for the most up-to-date information.

The Harvard School of Public Health maintains an Education and Research Center (ERC), funded by the National Institute for Occupational Safety and Health (NIOSH).



MONDAY, SEPTEMBER 13, 2010

7:30 AM	Check-In and Continental Breakfast
8:00	Welcome — <i>Dennerlein</i>
8:30	Physical Ergonomics and Work-Related Musculoskeletal Disorders — <i>Dennerlein</i>
9:45	Refreshment Break
10:00	Diagnosis, Treatment, and Management of Low Back Pain — <i>Katz</i>
11:00	Diagnosis, Treatment, and Management of Upper Extremity Musculoskeletal Disorders (MSDs) — <i>Katz</i>
12:00 PM	Lunch
1:00	Scientific Basis for Lifting Guidelines — <i>Ciriello</i>
2:00	Refreshment Break
2:15	Job Analysis Tools for Manual Materials Handling — <i>Maynard</i>
3:45	Break
4:00	Manual Materials Handling Case Studies — <i>Maynard</i>
5:30	Sessions End

TUESDAY, SEPTEMBER 14, 2010

7:30 AM	Continental Breakfast
8:00	Organizational Challenges in Implementing an Ergonomic Intervention: A Health Care Case Study — <i>O'Day</i>
9:15	Refreshment Break
9:30	Introduction into Cognitive Ergonomics — <i>Robertson</i>
10:30	Break
10:45	Applications of Human Factors in Health Care — <i>Leape</i>
11:45	Lunch
12:45 PM	Upper Extremity Metrics and Analysis Tools — <i>Myers</i>
2:15	Refreshment Break
2:30	Upper Extremity Cases: Applying the Tools — <i>Myers</i>
3:45	Break
4:00	A Classic Repetitive Case Study — <i>Ciriello</i>
5:00	Sessions End
5:00	Reception at the Harvard School of Public Health

WEDNESDAY, SEPTEMBER 15, 2010

7:30 AM	Continental Breakfast
8:00	Applied Anthropometry — <i>Gordon</i>
9:00	Refreshment Break
9:15	Office Ergonomics: The Latest Epidemiology and Case Studies — <i>Dennerlein</i>
10:45	Break
11:00	Process Approaches to Prevention: Applications in The Biotechnology Industry [New in 2010] — <i>Honan</i>
12:30 PM	Lunch
1:30	Considerations for the Aging Work Force [New in 2010] — <i>Wegman</i>
2:30	Refreshment Break
2:45	Prevention of Slips, Trips, and Falls at Work: Research — <i>Chang</i>
4:00	Break
4:15	Prevention of Slips, Trips, and Falls at Work: Practice — <i>Maynard</i>
5:30	Sessions End

THURSDAY, SEPTEMBER 16, 2010

8:00 AM	Continental Breakfast
8:30	Low Back Disability Management — <i>Pransky</i>
9:30	Refreshment Break
9:45	Return to Work for Risk Managers — <i>Pransky</i>
10:45	Break

11:00	The Physiology of Shift Work — <i>Czeisler</i>
12:00 PM	Lunch
1:00	Ergonomics Program Management — <i>Courtney</i>
2:30	Refreshment Break
2:45	Ergonomics Program Case Studies: Team Workshop — <i>Courtney</i>
3:30	Team Presentations on Management Interventions — <i>Courtney</i>
5:00	Program Adjournment

Agenda subject to change

Harvard Program Director

Jack T. Dennerlein, SM, PhD

Associate Professor of Ergonomics and Safety

Department of Environmental Health
Harvard School of Public Health
Associate Professor of Orthopaedic Surgery
Brigham and Women's Hospital
Harvard Medical School

Program Faculty

Wen-Ruey Chang, PhD

Principal Research Scientist
Center for Safety Research
Liberty Mutual Research Institute for Safety

Vincent M. Ciriello, ScD, CPE

Instructor
Department of Environmental Health
Harvard School of Public Health
Research Scientist
Center for Physical Ergonomics
Liberty Mutual Research Institute for Safety

Theodore K. Courtney, MS, CSP

Instructor on Injury, Safety, and Ergonomics
Department of Environmental Health
Harvard School of Public Health
Director
Center for Injury Epidemiology
Liberty Mutual Research Institute for Safety

Charles A. Czeisler, PhD, MD, FRCP

Baldino Professor of Sleep Medicine
Director, Division of Sleep Medicine
Harvard Medical School
Chief, Division of Sleep Medicine
Department of Medicine
Brigham and Women's Hospital

Claire C. Gordon, PhD

Senior Research Scientist (ST)
Office of the Director
U.S. Army Natick Soldier RD&E Center

Meg Honan, RPT, MS, CPE

Senior Ergonomics Program Manager
Health Services and Ergonomics
Environmental Health and Safety
Genetech, Inc.

Jeffrey N. Katz, MD, MSc

Associate Professor of Medicine and Orthopaedic Surgery
Harvard Medical School
Associate Professor of Epidemiology and Environmental Health
Harvard School of Public Health
Director
Orthopaedic and Arthritis Center
for Outcomes Research
Brigham and Women's Hospital

Lucian L. Leape, MD

Adjunct Professor of Health Policy
Department of Health Policy and Management
Harvard School of Public Health

Wayne S. Maynard, CSP, CPE, ALCM

Technical Director, Ergonomics and Tribology
Loss Control Advisory Services
Liberty Mutual Research Institute for Safety

Paul R. Myers, CSP, CPE

Senior Technical Consultant, Ergonomics
Loss Control Advisory Services
Liberty Mutual Insurance Company

Tucker O'Day, MSPT

Program Manager, Ergonomics
Partners HealthCare System, Inc.

Glenn Pransky, MD, MOcch

Director
Center for Disability Research
Liberty Mutual Research Institute for Safety
Associate Professor
University of Massachusetts Medical School

Michelle Robertson, PhD, CPE

Research Scientist
Human Factors and Ergonomics
Center for Behavioral Sciences
Liberty Mutual Research Institute for Safety

David H. Wegman, MD, MPH

Professor, Emeritus
School of Health and Environment
Department of Work Environment
University of Massachusetts Lowell

Program fee: \$1,595

Early Bird discount available

Register by June 4, 2010 and save!

Program fee includes:

- Continental breakfasts, lunches, and refreshment breaks
- Reception
- Comprehensive take-home reference manual
- Continuing Education Credit
- Harvard School of Public Health certificate of participation

Registration criteria available online.

Discounts available

Group Registrations — Save up to 20%

Register with three or more colleagues and save. Let this excellent professional development opportunity serve as a team-building experience for you and your colleagues.

Alumni — Save 15%

If you have previously participated in a Center for Continuing Professional Education program, you are eligible for a discount on select future programs.

For more information, please contact us at 617.384.8692 or contedu@hsph.harvard.edu. Please note: each participant is limited to one discount offer per program. Discounts will not be awarded after the start of the program.

Accommodations

The Courtyard Marriott, Brookline

617.734.1393

40 Webster Street

Brookline, MA 02446

\$179/single/double occupancy + 11.7% tax

Rooms have been reserved at this reduced rate until **August 13, 2010**. Reservations should be made when you receive your registration and payment confirmation. Please mention the program name and the Harvard School of Public Health to receive the special rate.

The Courtyard Marriott is approximately 1.8 miles from the program location.

The Marriott will provide one complimentary shuttle trip to and from the program each day.

Substitution/Cancellation policy

Substitutions may be made without additional charge. All requests for substitutions or cancellations must be made in writing. Cancellations on or before July 26, 2010 will be issued a refund less a \$150 administrative fee per person. Cancellations received between July 27, 2010 and August 23, 2010 will be issued a refund of 50%.

After August 23, 2010, no refund will be issued. There will be no exceptions to this policy.

Related programs of interest

Guidelines for Laboratory Design:

Health and Safety Considerations

May 10–14, 2010

Effective Risk Communication:

Theory, Tools, and Practical Skills for Communicating about Risk

May 17–19, 2010

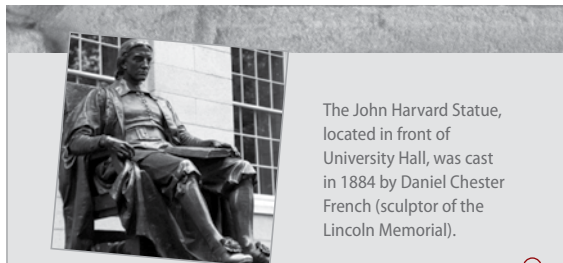
Comprehensive Industrial Hygiene:

The Applications of Basic Principles

June 14–18, 2010

For more information, visit:

www.hsph.harvard.edu/ccpe



The John Harvard Statue, located in front of University Hall, was cast in 1884 by Daniel Chester French (sculptor of the Lincoln Memorial).

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Foster the growth of your executives and your organization as a whole by developing a custom program that will address the specific challenges you are facing in today's marketplace. We will work with you to assess your needs and craft a targeted curriculum that will provide practical outcomes and address your organization's particular needs.

Taught in your backyard or the Harvard yard

Flexible scheduling allows you to enjoy the Harvard campus or bring the Harvard faculty to your location. The Center for Continuing Professional Education brings custom programs to organizations across the globe.

To schedule a complimentary consultation or for more information, please contact our Deputy Director, **Paul Tumolo**, at **617.384.8675**, ptumolo@hsph.harvard.edu, or visit our website at www.hsph.harvard.edu/ccpe.



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Three ways to register:

Online: www.hsph.harvard.edu/ccpe/ehf

Phone: 617.384.8692

Fax: 617.384.8690 (Download the form online)

Questions? Email us at: contedu@hsph.harvard.edu

**90% of participants rated the hands-on activities
as very good to excellent.**



Come to Harvard for hands-on, practical
solutions to your workplace ergonomic issues.

FSC logo

REFERENCE CODE: