

Jennifer McMullen, CPE

Summary

Ergonomics professional with extensive experience in job design, occupational layout and performance analysis, project management, and training program development

Education

MS Industrial Engineering (Ergonomics/Human Factors concentration)
University of Tennessee, 2001, Summa Cum Laude

BS Engineering Mechanics (Biomedical Engineering concentration)
University of Tennessee, 1995

Certifications

Certified Professional Ergonomist (CPE), April 2002

Work Experience

ErgoAdvantage Consulting Services

8/02 through present

Principle Ergonomist and Founder

- Full service Ergonomist specializing in occupational performance analysis, program development, workstation design, and training in various occupational environments to reduce associated risks and improve human performance
- Develop site-specific training programs and provide safety/ergonomics analysis and evaluation for various entities, including: Behlen Manufacturing Company, Englander, Marquis Spas, Skutt Ceramic Products, Inc, CoorsTek, Shin Etsu, Weyerhaeuser, Norpac, as well federal government office facilities and various insurance companies
- Provide clients with short and long term ergonomic improvement recommendations and guide project implementations

John Deere Commercial Worksite Products, Loudon, TN

7/98 through 8/02

Manager, Ergonomics Department

11/99 – 8/02

- Created and implemented an ergonomics program that contributed to a 72% decrease in OSHA recordable injuries and a decrease of 48% in man-hours per unit produced
- Managed and developed department staff
- Performed design work on ergonomic improvement projects and managed to completion
- Developed and led training programs related to ergonomics and safety
- Designed Safety & Ergonomics database program which received corporate recognition from John Deere
- Devised ergonomics project auditing system and established cross-functional ergonomics team
- Managed all aspects of Workers' Compensation process, including Return to Work program and Medical Management

Engineer, Ergonomics

7/98 – 11/99

- Designed occupational layouts to maximize human performance and efficiency and minimize discomfort on the job
- Interacted with operators daily to determine process bottlenecks, safety concerns, design ideas, and psychosocial issues within the factory
- Designed procedures, tools, and equipment to aid operators
- Updated all Job Safety Analysis forms to include potential ergonomics hazards for each task within the factory
- Managed major ergonomics improvement project that resulted in a one million dollar annual cost reduction

National Seating Company

4/96 through 7/98

Vonore, TN

Engineer, Human Factors and Ergonomics

1/97 – 7/98

- Designed, implemented and managed a new comfort engineering lab
- Introduced new pressure measuring technology which quantified user comfort
- Designed new ergonomic armrest adjustment mechanism that was successfully launched as a key feature of a new product line

Manufacturing Engineer, Ergonomics

4/96 – 1/97

- Responsible for ergonomics process improvement projects within factory work cells and introducing lean manufacturing concepts to factory personnel
- Developed work instructions and procedures for entire fabrication department

Skills and Training

- Extensive computer skills, including website and database design
- Development and implementation of various training programs (to 250 people) related to safety and ergonomics
- **Safety training:** Dupont STOP program, risk assessment methods for robotic welding, Lockout/Tagout, MSDS management, workers' compensation
- **Industrial Engineering:** Lean manufacturing concepts, DFT, KANBAN systems, KAIZEN, factory simulation, Decision analysis, labor measurement, design of experiments, quality function deployment, DFM, PFMEA
- Statistical analysis

Professional Speaking Engagements, Publications, and Press

- “**Home Office Ergonomics**,” January, 2006, given at the National Kitchen and Bath Association of Oregon annual meeting, Portland, OR
- Featured in Oregon Home Magazine, Nov/Dec 2005, “Thinking Outside the Cube, Ergonomics for the Home Office”, by Beth Olsen
- “**Practical Lean Manufacturing Ergonomics**,” March 2003, given at the Annual Applied Ergonomics Conference, Orlando, Florida
- Ergonomics start-up program featured in John Deere’s quarterly publication “DeereScapes Magazine”
- “**A Retrospective Study on the Effect of Implementing an Ergonomics Program in an Industrial Setting**.” Jennifer L. McMullen, May 2001.