



THE ERGONOMICS CENTER
OF NORTH CAROLINA
Advancing the Science of Ergonomics in the WorkplaceSM

Dennis D. Paine, BSc, CPE
Senior Ergonomist

EDUCATION

Bachelor of Science (BSc), Manufacturing Engineering and Human Factors/Industrial Ergonomics 1996

Miami University, Oxford, Ohio

PROFESSIONAL EXPERIENCE

Senior Ergonomist, 01/08 – Present

The Ergonomics Center of North Carolina, Raleigh, North Carolina

- Provide comprehensive ergonomics services (i.e. program development, risk assessment, job analysis/design recommendations, training, team development, worker compensation claims support) to clients and member companies/organizations.

Corporate Health/Safety/Environmental & Ergonomics Regional Manager, 10/06 – 12/07

Corporate Group Ergonomist, 2000 – 10/06

Plant Ergonomist, 07/96 – 2000

Johnson Controls, Inc., Holland, Michigan

SUCCESS STORIES

- Managed the ergonomic program at three Interiors Business Unit facilities, which over a four-year period experienced an 82% drop in the CTD rate and became benchmark facilities for JCI.
- Responsible for an \$110,000 annual budget which helped reduce the annual Workers' Compensation costs from \$350,000/year to \$80,000/year and realize savings of over \$200,000/year in manufacturing cost reductions.
- Designed and implemented numerous specialized tools to aid operators in assembly.
- Member of a cross-functional team that improved the throughput of a door panel production line by 200% and reduced scrap by 60% through creative process improvements and layout changes.

PROGRAM DEVELOPMENT

- Co-developed "paint-by-numbers" Ergonomic Step Process with leading key measures focusing on program performance.
- Co-developed comprehensive safety program.
- Developed Ergonomics Kaizen program.

- Developed Office Ergonomics Program including training and an online resource network.
- Authored a user-friendly, interactive interface for the ergonomics intranet portal site to improve global communications, expand networking capabilities, and provide on-line problem-solving tools.
- Designed and implemented a proactive injury review process.
- Implemented policies and programs assuring workplace conditions met local, federal and company requirements.
- Created a root cause database to identify process improvements and “close the loop” in product design and launch process.
- Designed a worksheet for ergonomic task analysis, which simplified initial analysis, and improved results by predicting cumulative effects of stress on the body over an entire shift.

LEADERSHIP

- Deployed an ergonomics program for European facilities.
- Led product design initiative to develop guidelines for standardized product design and implemented sign-off process.
- Program-managed launch initiative for integrating ergonomics into launch process.
- Established and mentored cross-functional ergonomic teams at local and regional manufacturing sites.
- Mentored ergonomic summer interns who later on became successful career ergonomists.

PRESENTATIONS and TRAINING

- Developed and taught instructional programs that covered a wide variety of ergonomic topics to all levels of the organization including engineering, management, and production.
- Participated in the First National Applied Ergonomics Conference on “*Achieving Manufacturing Objectives through Ergonomic Improvements*” and published conference proceedings.

SKILLS and OTHER ACHIEVEMENTS

- Certified as a *Lean Implementor*; working knowledge of MODAPTS, HTML (Dreamweaver, DAY Communiqué), AutoMats, MQPro, Kepner Trago, AutoCAD, Ergonomic analysis tools (3DSSPP, EEPP, etc).
- Merit Award for the development/presentation of an Ergonomics Seminar for Advanced Manufacturing Engineers (2002)
- *Kids Hope* Mentoring Program.