



Industrial Ergonomics Process Workshop (IEPW)

October 16-19, 2017

Raleigh, NC

A practical approach to controlling musculoskeletal disorders in the workplace starts with an **Ergonomics Program and Ergonomics Team**. A detailed ergonomics process must be in place in order to effectively introduce ergonomics into the workplace. Participants are taught the components of successful ergonomics teams and programs to help jump-start ergonomics initiatives in their workplace.

The next step is identifying the problem. Participants are taught how to identify problem areas and use basic job analysis techniques to help **Screen and Prioritize** their efforts. The Industrial Ergonomics Screening Tool is presented as a first pass to identifying jobs with ergonomic risk in the workplace. Many jobs require a concentrated evaluation effort requiring more in depth "deep-dive" analysis tools. Participants learn how to select and utilize key **Ergonomics Analysis** tools to define workplace risk, evaluate hand/wrist intensive tasks, and quantify manual materials handling activities. Participants are encouraged to bring videotapes of their own working environments as workshop exercises utilize videotape analysis, allowing participants to apply the techniques discussed.

Hands-on workshops will also help participants hone their analysis skills. The analysis tools covered include the Center's Industrial Ergonomics Screening Tool, NIOSH Lifting Equation, Liberty Mutual Manual Material Handling Tables, RULA, Strain Index, Muscle Fatigue Analysis, and ErgoDATA.

Participants will learn the basics of each ergonomics assessment tool, then be shown how to effectively utilize the Ergonomics Center's computer software tool (ErgoDATA) for ergonomics analysis. ErgoDATA aides the user by providing ergonomics analysis tool selection and guiding the user through an analysis pathway.

Once the analysis is performed, the ergonomics team should devise a plan to implement **Control Measures**. Possibly the most pivotal stage of an ergonomics process is transforming the recommendations from concept to reality. **Workstation Design** guidelines allow participants to develop a solution that is feasible, effective, and justifiable. Participants will employ guidelines and specifications to create practical solutions with the first iteration. **Implementation and Verification** of solutions and follow-up timelines will be discussed. Special control measures for specific populations, such as the aging workforce, will also be presented.

Class is held from 8:00AM–5:00PM Monday through Wednesday and 8:00AM–12:00PM on Thursday.
Fee: \$1400 which includes a Professional Membership

3.0 Continuing Education Credits (CEUs) awarded through NC State University
Register online at: <https://www.ergocenter.ncsu.edu/training/workshop-registration>



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