

OCCUPATIONAL ERGONOMICS

PRIMARY ERGONOMICS INJURY RISK FACTORS

REPETITION









SECONDARY RISK FACTORS

Contact stressCold/heatVibrationNoisePhysical stressEmotional stress

ERGONOMIC PRINCIPLES

1. Work in Neutral Positions
Avoid awkward postures in any area of the body
Awkwardly bending any part of the body (wrist, neck, etc.)

2. Reduce Excessive Force
Excessive force on joints can increase risk for fatigue and can lead to injuries
Lifting heavy objects, push/pull vacuum, squeezing a mop handle, wiping tables

3. Keep Within Easy Reach
Keep frequently used equipment and tools close to the body
Reaching to wipe tables, overreaching to mop or vacuum

4. Work at Proper heights
Keep work in the 'golden zone'. Above hips and below shoulders

5. Other Principles
Reduce excessive motions

SIGNS AND SYMPTOMS OF MSD INJURY

FatigueAches and PainsWeaknessStiffnessDiscomfortTendernessNumbnessBurningTingling

Minimize Pressure Points

Minimize fatigue and static loading

Swelling Body parts "falling asleep"
Loss of joint strength Trouble sleeping due to pain

Loss of joint movement



Ergonomics Injuries are #1 at CSU



BENEFITS OF ERGONOMICS

- Ensures safety and well-being of workers By making sure employees have the knowledge and appropriate
 ergonomic equipment and processes, departments can see improvement in their well-being as well as a
 decrease in discomfort and pain
- Ergonomics reduces costs By reducing or eliminating exposure to ergonomic injury risk factors, departments can also reduce costs related to musculoskeletal disorders
- Ergonomics improves productivity By designing work stations and practices to be ergonomically fit and efficient, workers can likely get more work done in the same or shorter period of time will be able to focus more on productivity rather than discomfort
- Ergonomics creates a better safety culture and environment Becoming aware and spreading ergonomics awareness will allow a work environment that health and safety of all employees

SERVICES

The CSU Ergonomics program offers a variety of ergonomic related services include:

- Office and industrial ergonomic evaluation and risk assessments
- Ergonomic data review and injury analysis
- Office ergonomics 'ergo lab' (office ergonomic equipment review and trial)
- Training (General, Customized, Department Specific)
- Online training (Office, Back Safety, Slips, Trips and Falls
- Physical demands analysis

