

The XXIXth Annual Occupational Ergonomics and Safety Conference
Seattle, Washington, USA
June 1-2, 2017



ergonomics for us™

BROCHURE

Consulting Services
App Technology Solutions

Saturn Ergonomics Consulting, LLC

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Practical



User-friendly



Effective

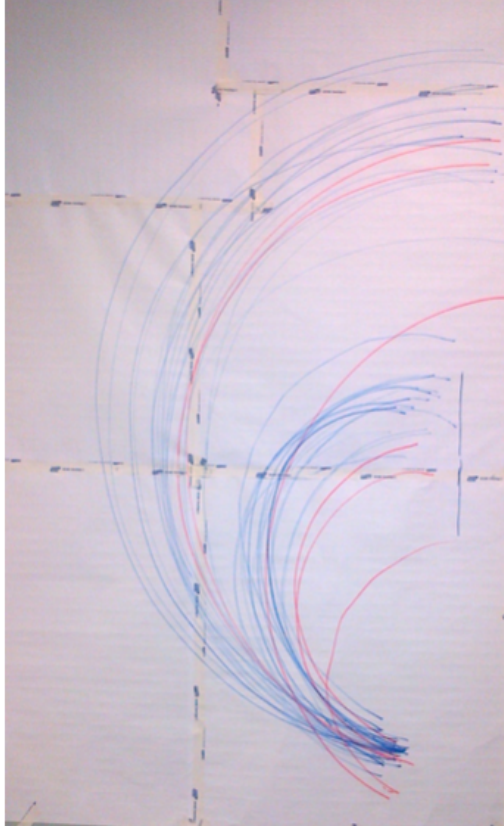
Ergonomics Consulting Services

Saturn Ergonomics Consulting delivers proven ergonomics consulting services. Murray Gibson, PE, CPE, *Founder / Ergonomics Consultant* has over 20 years of experience at the plant & corporate level applying ergonomics, and as a consultant in 150+ companies. Everything is designed to be practical, user-friendly, and effective.

TRAINING

The Training service provides participants the knowledge, skills & tools necessary to develop effective solutions to ergonomic-related problems. Training consists of practical approaches that have been applied successfully across a wide range of industries. The Training service will enable your organization to . . .

- become self-sufficient at resolving ergonomic-related problems
- efficiently establish priorities, evaluate problems, and then develop & implement effective solutions
- document projects & measure results

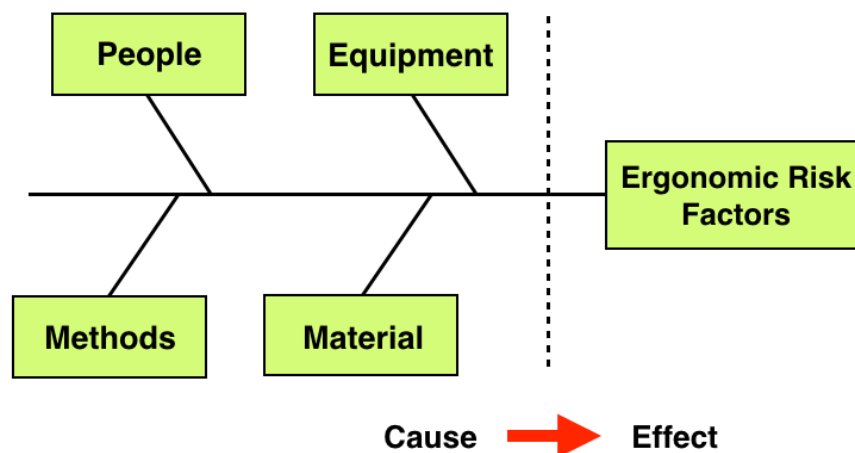


EVALUATIONS / ASSESSMENTS

Evaluations/Assessments is the appropriate service when you need immediate help developing solutions for jobs (or tasks) where there have been work-related injuries or employee complaints of discomfort. We like to call this “problem solving”. The consultant evaluates the jobs onsite, then presents findings & recommendations in a written report or web-based presentation. This service provides . . .

- customized solutions enabling your organization to immediately begin making improvements
- help solving difficult-to-solve problems that may have brought your ergonomics improvement efforts to a halt

Cause & Effect Diagram

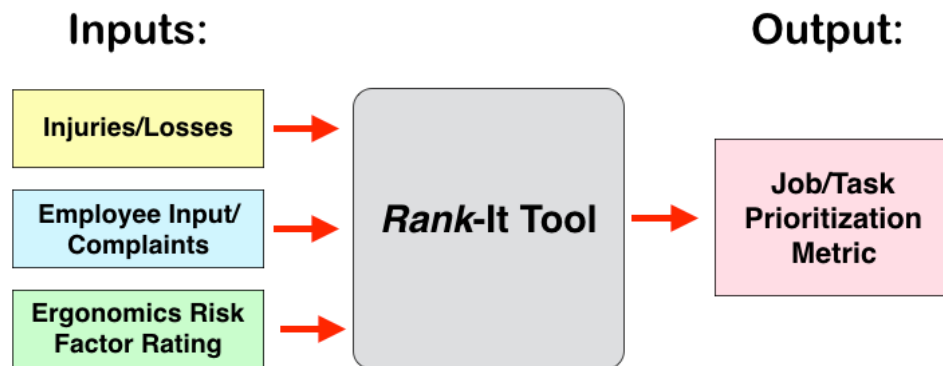


RISK ASSESSMENT

The Risk Assessment service helps your organization effectively identify and prioritize ergonomic-related concerns. Risk assessment & project prioritization are the first steps in an ergonomics initiative . . . determining where to begin making improvements. The Risk Assessment service enables your organization to . . .

- rapidly identify & prioritize ergonomic-related concerns
- establish baseline metrics used to measure success
- determine where to concentrate resources for maximum benefit

Rapid Prioritization Model

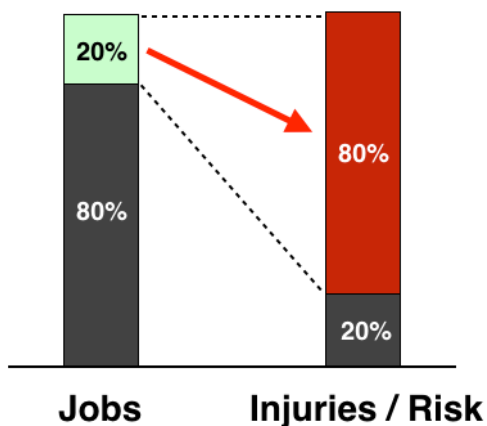


PROCESS / PROGRAM DEVELOPMENT

The Process / Program Development service assists your organization with design & implementation of an effective ergonomics process; providing the knowledge, skills, tools & process necessary for your organization successfully apply ergonomics. This service enables your organization to . . .

- reduce work-related injuries
- reduce workers compensation costs
- lower absenteeism & turnover rates

80-20 Ergonomics™



Ergonomics Process



App Technology Solutions

In 2017 Saturn Ergonomics Consulting will begin introducing innovative app technology solutions, enabling clients to be more successful applying ergonomics.



Innovative App Technologies

Saturn Ergonomics Consulting is committed to the development of practical, accurate, and user-friendly app technology solutions to meet the needs of people who apply ergonomics (i.e., ergonomic teams, safety specialists, engineers, safety committees, etc.). These new ergonomics app technology solutions will consist of

- **MULTI-TASK FORCE EVALUATION:** Ability to evaluate forces of different magnitudes (even forces of different frequencies & durations) in the same calculation.
- **ISOLATED FORCE EVALUATION:** Determine the acceptable force limit for an isolated subtask, while factoring-in surrounding (contextual) subtask forces.



- **FORCE ESTIMATION TECHNOLOGY:** Sometimes it's difficult to measure a force directly (i.e., can't get a gauge on it, no parts available, etc.). The problem is a stronger person's "3" rating may be a weaker person's "6" rating. Force Estimation Technology converts individual 1-10 subjective force estimates to accurate force values, taking into account force type (grip, pinch, etc.) and individual characteristics such as gender, age, size, and strength.
- **MUSCLE FATIGUE EVALUATION:** Saturn Ergonomics is collaborating with leading academic & industry professionals to develop and refine useful new technologies for evaluating localized muscle fatigue. The core technology will lead to applications for job rotation, line balancing, ergonomic risk assessment, ergonomic design, and employee selection & placement.
- **INDIVIDUALIZED ERGONOMICS EVALUATION:** Technologies for evaluating ergonomic exposures and muscle fatigue based on individual characteristics such as gender, age, size, and strength.

Later in 2017, these app technology solutions will become available in the Saturn Ergonomics *Ergo App Store*[™], accessed from www.saturnergonomics.com. App technology solutions will range from simple calculator apps to enterprise-level app database solutions. Apps will be delivered via a cross-platform solution, allowing users to access the apps from any desktop computer or mobile device.