

Some Techniques Used by ISEs

by: Steve Snelling

Industrial & Systems Engineers (ISEs) use a variety of techniques when working on projects and during their daily activities. Some of these techniques are learned in school, and some of these techniques are learned during the initial five years of working (if you are assigned a wide variety of projects).

- Benchmarking
- Contract Reviews
- Data Analysis
- Design of Experiments
- Employee Involvement
- Equipment Utilization studies
- Environmental studies
- Ergonomics & Human Factors evaluations
- Facility & Equipment Layouts
- Flow Diagramming
- Information & Data Flow analysis
- Interviewing for Information
- Lean Manufacturing & Lean Audits
- Maintenance Reviews
- Material Handling analysis
- Modeling & Testing
- Operations Audits
- Organizational Analysis
- Pilot Programs
- Product Development & Product Costing
- Project Management
- Project & Product Scheduling
- Risk Analysis
- Safety Reviews & Safety Audits
- Simulation
- Site Location comparisons
- Six Sigma projects
- Statistical Analysis
- Strategic Planning
- Systems Optimization
- Theory of Constraints
- Time Studies
- Tooling Studies
- Transportation Studies
- Warehousing Analysis
- Work Sampling