

Using Your IE Skills in Health Care

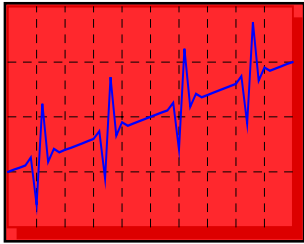
John Hansmann

Region Manager, Management Engineering

Intermountain Health Care

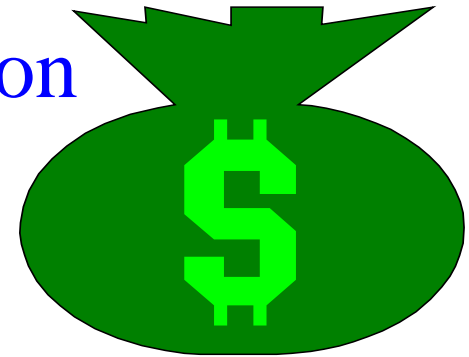
Salt Lake City, UT

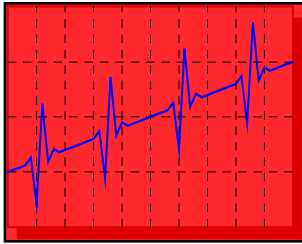




Health Care Industry

- 1996 - US spent \$1.035 trillion on health care
- ~ 14 percent of the US GDP
- Expenses increasing at 4-5 percent annually (were increasing at 10+ percent in 1980s)
- 44 million people without health care insurance
- Insurance premiums continue to increase

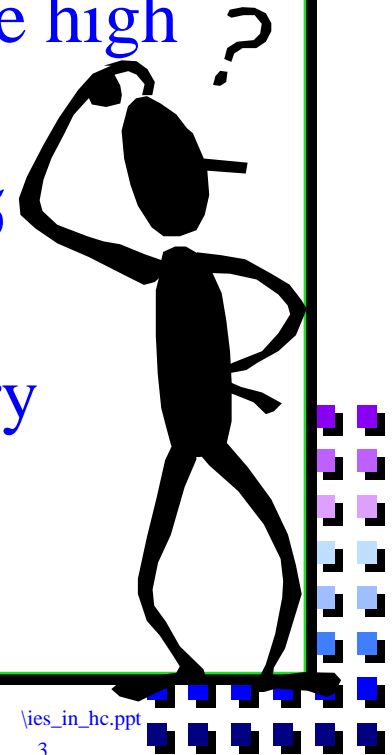


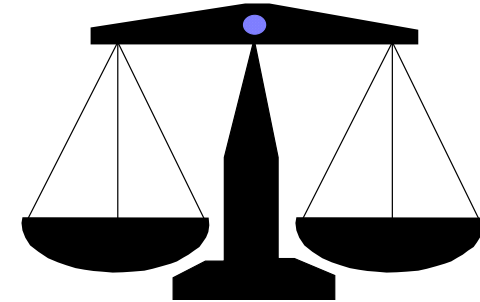
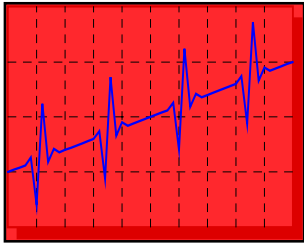


Health Care Industry

■ Major financial pressures:

- health care must become more efficient, use less resources while continuing to provide high quality of care
- the Juran Institute has estimated that ~ 35 percent of health care costs are “waste” - duplication, non-value added, unnecessary redundancies, etc.

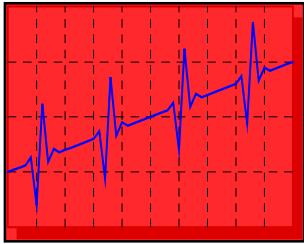




What is a Management Engineer?

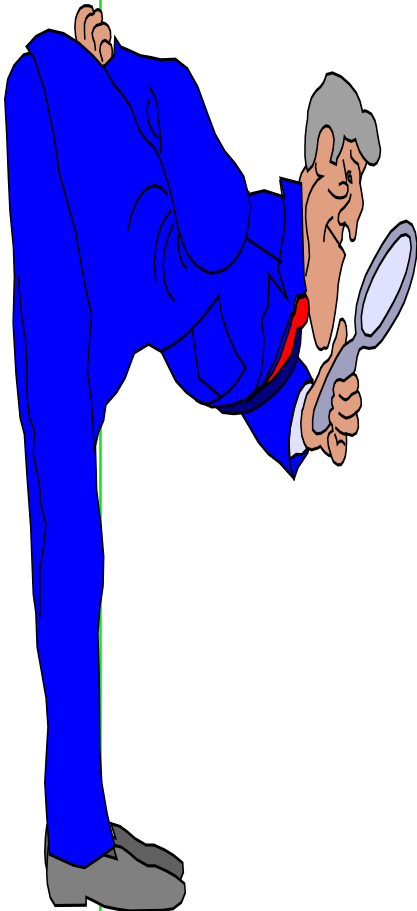
- Industrial Engineer in a hospital environment
- Helps integrate people, equipment, facilities, and other resources to improve work results
- Uses skills learned in IE (Process Design, Flowcharting, Layout Optimization, Forecasting Methodologies, etc.)
- Performs cost-saving & quality improvement projects

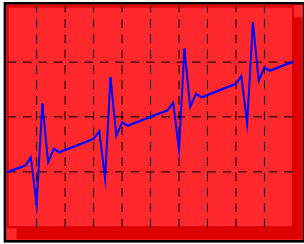
Slide courtesy of Premier, Inc.



Typical Management Engineering Projects

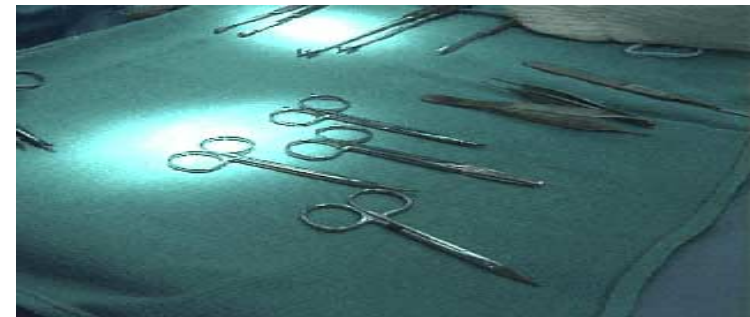
- Productivity Management - monitor performance, cost and effectiveness of operations
- Staffing and Scheduling
- Process Improvement
- Inventory Management
- Simulation
- Benchmarking
- Facility Design and Capacity Analysis
- Operations and Systems Analysis
- Quality Improvement Team Facilitation/Teaching





History of IEs in Health Care

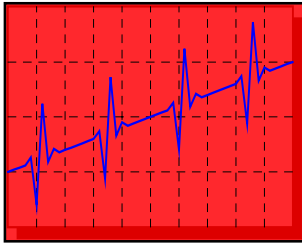
1911 - Frank Gilbreth, surgical tray layout



1952 - AHA establishes its committee on methods improvement

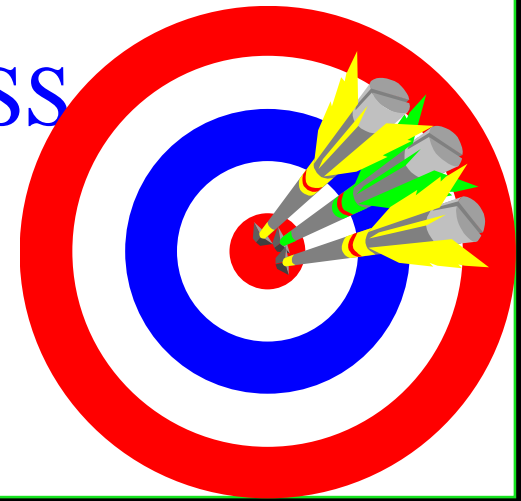
1st full time management engineer employed at Cleveland Clinic

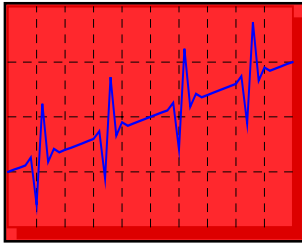
Slide courtesy of UAB Hospital



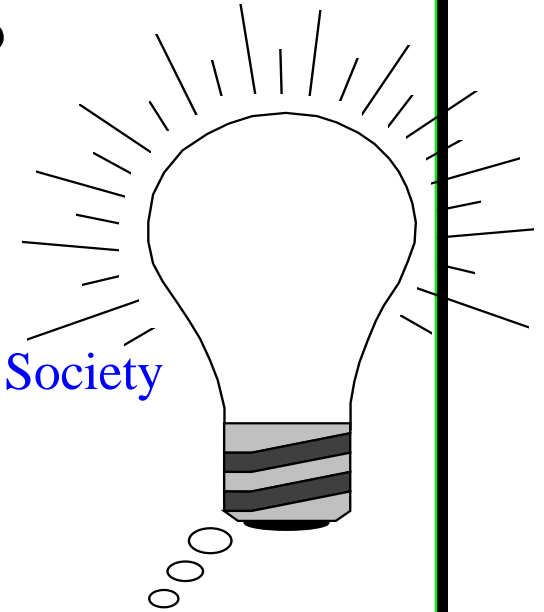
Where Can I Find Job Openings in Health Care?

- *Society for Health Systems News*
- Job Listing at Annual QQPHS Conference
- *Solutions Magazine (IIE)*
- *HIMSS News*
- Jobs Listing from Annual HIMSS Conference
- *Modern Healthcare*
- *Hospitals & Health Networks*

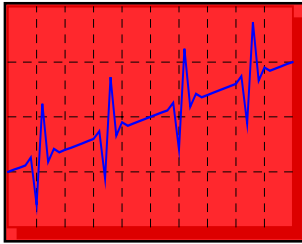




How Can I Learn More about Health Care?

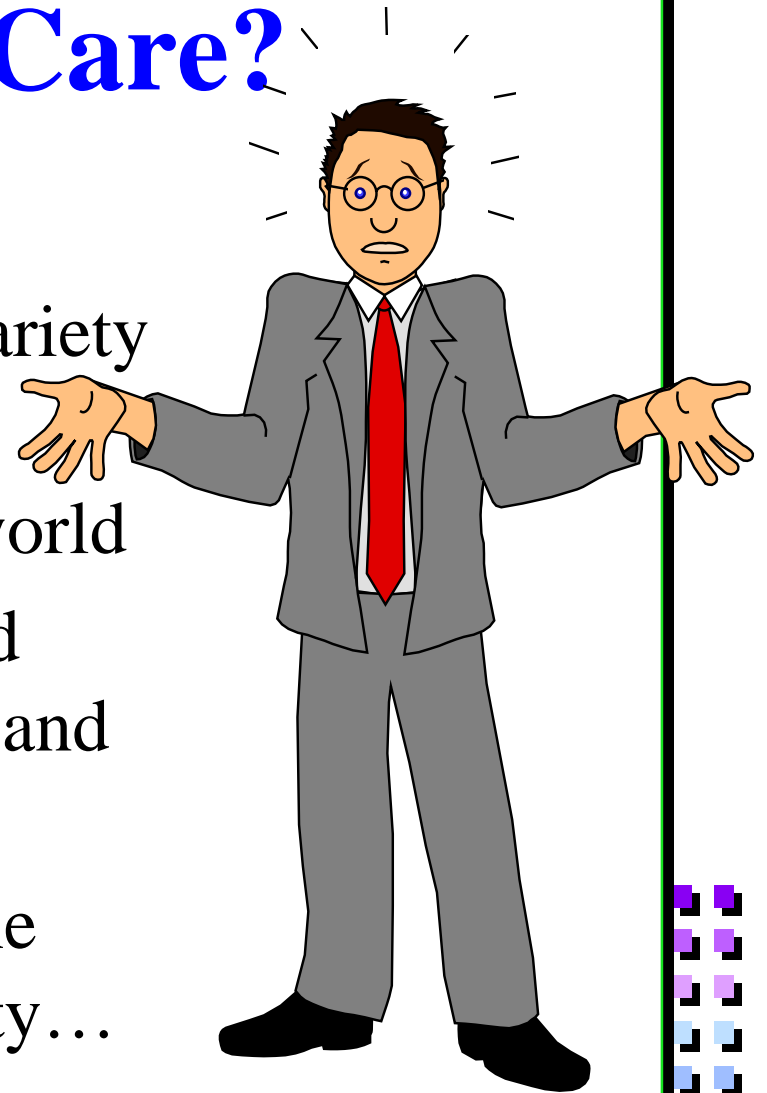


- Professional Organizations
 - Society for Health Systems (SHS)
 - Healthcare Information and Management Systems Society (HIMSS)
 - Institute for Healthcare Improvement (IHI)
 - ASQ Health Care Division (ASQ-HCD)
- Dr. Cook's Health Care Course
- NDSU Rx/Nursing Programs/Health Care Admin Classes
- Co-op Programs/Internships/Summer Employment and Volunteer at Local Hospitals
- Senior Design Projects

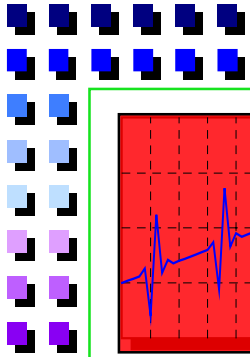


Why Health Care?

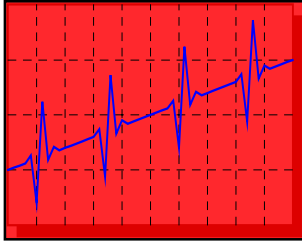
- It will ALWAYS be needed
- It provides an almost endless variety of opportunities
- It's the largest industry in the world
- Work primarily with people and processes rather than machines and products
- Make a significant impact on the lives of people in the community...
...not just “the bottom line”



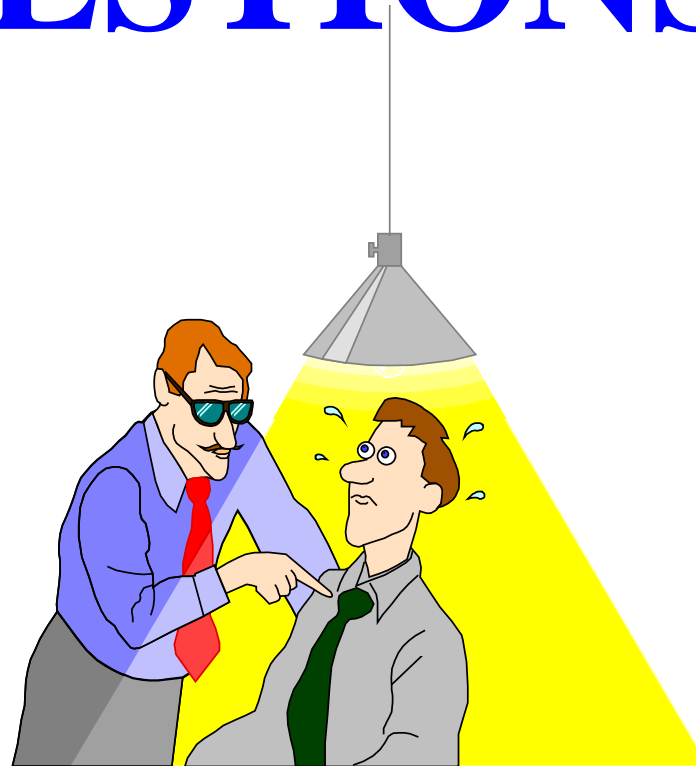
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QUESTIONS????



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