

# Main Areas IEs Work In at The Boeing Co.

- **MANAGE PROJECTS**
  - Project Management
  - Project Scheduling
  - Risk Management
- **PROCESS IMPROVEMENT**
  - Lean Manufacturing
  - Engineering Economic Analysis
  - Process Modeling
  - Root Cause Analysis
  - Statistical Methods
  - Six Sigma
  - Time Studies
  - Work Sampling
- **SUPPLY CHAIN ANALYSIS**
  - Supply Chain Alignment
  - Material Logistic
  - Inventory Control
  - Supplier Support
  - Make/Buy Mfg Process
- **OPERATIONS IMPROVEMENT**
  - Ergonomics & Human Factors
  - Operating Plans
  - Recovery Planning
  - Capacity Planning
- **INTEGRATED SYSTEMS**
  - Value Stream Analysis
  - Facilities Layout
  - Production System Design
  - Manufacturing Process Design
  - Systems Thinking
- **DIRECT SUPPORT TO PRODUCTION**
  - Production Scheduling
  - Theory of Constraints
  - Budgets & Forecasts
  - Crew Empowerment
  - Defect Analysis
  - Benchmarking Analysis

# Industrial Engineering Functional Work Areas

## Product Engineering



- Team Facilitation
- Product Development

## Finance



- Make/Buy Analysis
- Comparison of Alternatives
- Cost Estimating

## Quality



- SPC/SQC
- DOE
- Supplier Quality
- Queuing Theory
- Six Sigma

## Project Management



- Resource Planning
- Risk Analysis
- Project Scheduling

## Production Control



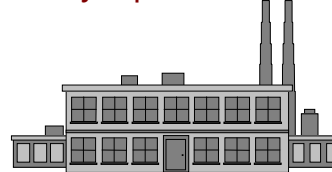
- Job Scheduling
- Expedite procedures

## Facilities



- Layout Design
- Process Flow Analysis

## Factory Operations



- Production Simulation
- Theory of Constraints
- Systems Integration
- OSHA Regulations
- Safety Management
- Linear Programming
- Lean Manufacturing

## Transportation



- Logistics Planning
- Material Handling

## Training



- Course Facilitation

## IE Methods



- Workstation Design
- Ergonomics
- Methods Engineering

## Tooling



- Tool Fab process
- Tool Offload procedures
- Tool Repair process
- Tool Room procedures

## Inventory



- Inventory Management
- Supplier Selection
- Material Requirements Planning
- Supply Chain Management