High-Performance Manufacturing

Production Technician
Responding to Expectations:  
Section 2.2

- #1 Challenge is to reduce cost without sacrificing quality.
- Cost control can be addressed by:
  - paying the lowest possible price for quality parts, materials, and equipment
  - increasing production efficiency.
  - eliminating waste.
Apply It!

• Category: Problem Solving
  – Making Decisions & Judgments

• Process:
  – Group of 3-5

• Time:    :05

• Task:
  – Read PS pg. 57
  – List 10 resources
  – Class Discussion
Responding to Expectations: continued-

- Time as a resource
- Flexibility
- Advanced Manufacturing Systems
  - Lean Manufacturing
  - JIT or Just In Time Mfg.
  - Cellular Mfg.
  - Agile Mfg.
  - Supply Chain Mfg.
Responding to Expectations:

continued-

Quality, quality, quality…

- Make quality everyone’s responsibility
- Focus on prevention
- Monitor quality throughout the process
- Identify quality problems and investigate root cause.
Advanced Technologies: continued

- Speed Up Production, Improve Quality and Reduce Cost!
  - Automation, CAD/CAM, CIM, Robotics, CNC, FMS, and Smart Systems.
Knowledge Check!

• Category: Review
• Process: Group of 3-5
• Time: 10 minutes
• Questions:
  – Identify the four areas in which manufacturers can respond to customer expectations
  – Explain how JIT helps manufacturers control costs
  – Describe two ways that robots can be used in production
• Chapter:  
  – 2  
• Sections:  
  – 2.1, 2.2  
• Individual:  
  Time: :00  
• Task:  
  – Answer "Review Questions" and/or "Test Prep"  
  – Classroom Discussion
• **Subject:**
  – Inside Manufacturing

• **Process:**
  – Class divided into 4 groups

• **Time:** :60

• **Task:**
  – Study assigned company text. Plan report out to class about the companies process, culture, and product. Assure objectives are met and key terms are defined

**NOTE:** Group presentation to follow
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