TOTAL QUALITY MANAGEMENT TOOLS

Measurement Techniques and Quality Strategies

- √ (1) data sheet
- √ (2) cause-and-effect diagram
- √ (3) scatter diagram
- √ (4) flowchart
- √ (5) Pareto chart
- √ (6) histogram
- √ (7) control chart

Developing Control Charts

- **✓** Control chart for variables
- **✓** Control charts for attributes
- ✓ X-Bar and R Charts
- ✓ P- Charts
- ✓ np-Charts
- ✓ c-Charts

- ✓ A benchmark in many industries
- ✓ A methodology used to deal with process variability, to measure and improve company's performance, practices and systems

- ✓ DMAIC--Six Sigma Improvement Methodology
 - ✓ define,
 - ✓ measure,
 - ✓ analyze,
 - ✓ improve,
 - ✓ control

- ✓ DMADV: Creating new process to perform at Six Sigma
 - > Define the project
 - Measure the opportunity
 - > Analyze the process options
 - Design the process
 - Verify the performance
- √ ±6 Sigma versus ± 3 Sigma

- ✓ DMAIC (define, measure, analyze, improve, control): Six Sigma Improvement Methodology
- ✓ DMADV: Creating new process which will perform at Six Sigma
 - > Define the project
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- √ ±6 Sigma versus ± 3 Sigma

Methods of Six Sigma

- ✓ Six Sigma Champions
- ✓ Six Sigma Master Black Belts
- ✓ Six Sigma Black Belts
- ✓ Six Sigma Green Belts

Lean six sigma

- ✓ An improvement methodology to reduce the wastes and the variability of products
 - ✓ A trained team is essential
 - ✓ Six sigma vs Lean six sigma