



Quality-One International

Statistical Process Control (SPC) Course Outline

- Brief History of Quality Control
 - Craftsmanship
 - Guilds
- Normal Inspection Processes
 - 100% inspection
 - Lot Sampling
- Rise of Continuous and Discreet Processes and Product Assurance
 - Cost of Quality (Failure, Appraisal, Prevention)
- Data Types
 - Attribute
 - Variable
- Statistical Principles
- Central Tendency
 - Mean
 - Median
 - Mode
- Variation
 - Range
 - Standard Deviation
 - N
 - n-1
- Creation of Histogram
- Control Charts
 - X Bar and R
 - Median Range
- Stability Tests
 - Out of Control
 - Basic Probability of Events
- Capability
 - Cp, Cpk,
 - Pp, Ppk
- Special Control Methods
 - Poke Yoke'
 - Error Proofing
 - Mistake Proofing
 - Stop Light Controls
 - Short Lot
 - Cpk Control Charts