

SPC Fundamentals

Course Outline

1. Basic InfinityQS SPC Navigation
 - a. Opening projects
 - b. Configuring charts
 - c. Adding subgroups and responding to alarms
2. Creating Projects
 - a. Linking to a database
 - b. Data entry configuration
 - c. Special data entry options
3. Customizing Charts
 - a. Headers
 - b. Report section
 - c. Graphics
 - d. Templates
4. Structure Strategies
 - a. Groups and items
 - b. Best practice exercises
5. Toolbar Button Usage
6. Feature Selection (for test characteristics)
 - a. Variable
 - b. Defect
 - c. Defective
 - d. Using the appropriate chart
7. Database Navigation
 - a. Creating groups and items
 - b. Editing
 - c. Tracking edits
8. Dynamic Projects
 - a. Multiple parts and processes in one project
 - b. Multiple data entry configurations with a project

9. Limits
 - a. Specification limits
 - b. Control limits

10. Utilizing InfinityQS Tools to Address Alarms/Events
 - a. Assignable cause and corrective action codes
 - b. Process events report
 - c. Pareto chart for events

11. Importing Data

12. Using Equation Editor for Calculations

13. Descriptors
 - a. Hard-coded
 - b. User-defined

14. Reports
 - a. Box and whiskers
 - b. Pareto
 - c. SPC Monitor
 - d. Capability analysis (distribution curve)
 - e. Capability report (short term and long term capability)

15. Using Data Selection to Query Existing Data

16. Electronic Gage Set Up

17. Using InfinityQS Projects as a Navigational Tool

18. Case Studies
 - a. Measuring multiple test characteristics on a single part
 - b. Injection molding
 - c. Job shop (multiple parts, processes and test characteristics managed in a single InfinityQS project)
 - d. Self-directed project building
 - e. Building a checklist

19. Optional exercises and a checklist for getting started included with material