

Course Outline

1. ProFicient Database & Data Structure

- › General vocabulary
- › Menu options
- › Database structure and management best practices

2. Project Building

- › Collecting data
- › Creating charts for reporting
- › Using the data entry as a checklist
- › Applying descriptors for quick filters

3. Different Data Collection Methods

- › Manual (keyboard)
- › Equation editor (calculations)
- › Database value
- › Gages (semi-automation)
- › Buffer file - installable equipment driver

4. Advanced Toolbar Options

- › Passing parameters
- › InfinityQS Project Toolbar Command (IPTC) files (enables multiple procedures to be performed consecutively)

5. Utilities

- › Import
- › Specification limit
- › Lot status

6. Attribute Data

- › Defect
- › Defective
- › Charting of attribute data

7. Working with Limits

- › Specification limits
- › Control limits
- › Economic limits
- › Exponentially Weighted Moving Averages (EWMA) limits
- › Specifying control limits

8. Calculations

- › Simple equation editor functions
- › Advanced equation editor functions (if-then, nested if-then, etc.)
- › Using factor values

9. Assignable Cause Codes (ACC) & Corrective Action Codes (CAC)

- › Creating ACCs and CACs
- › Reporting using ACC and CACs

10. Advanced Control Charts

- › Group control charts
- › Targeted control and box & whisker charts
- › EWMA
- › 3-D control charts

11. Exercises (combine the above topics and challenge problem-solving skills)

- › Rivet manufacturing (multiple part/process/test flexibility)
- › Machine shop structure (out of the ordinary structure)
- › Injection molding (multiple cavities)
- › Work flow management (optional)
- › Data Management System/Data Collection Service basics (optional)
- › Lot genealogy (optional)
- › Wafer fabrication (non-traditional control charting)
- › Chemical processing (non-traditional control limits)
- › Filling operations
- › Weight control