



Quality-One International

Process FMEA Training Course Outline

- Introduction to Process Failure Mode and Effects Analysis (PFMEA)
- Design FMEA inputs
 - Special Characteristics
 - Critical and Significant
 - Effects of Failure
 - Severity of the Effect
 - DFMEA Robustness Tools and Link to PFMEA
- Cross Functional Team required for PFMEA Development
- PFMEA Pre-work
 - Past Failures / Cost of Quality
 - Process Flow
 - Characteristics Matrix
 - Estimate Process Capability or Plan Capability per APQP
 - Calculate CP Index
- PFMEA Methodology – Three Path Model
 - PFMEA Path 1
 - Process Description, Failure Mode, Effects and Severity
 - Actions on Severity 9 and 10
 - PFMEA Path 2
 - Cause Prevention and Occurrence columns
 - Error Proofing considerations
 - Actions on high occurrence (combined with severity)
 - PFMEA Path 3
 - Detection methods and Detection Rankings
 - Mistake proofing and Inspections considerations
 - Process Controls
 - Special Characteristics
 - Special Controls
- Control Plans
 - FMEA Linkages from DFMEA to PFMEA to Control Plan