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