Design Review Based on Failure Modes (DRBFM) Course Outline

• Introduction to DRBFM
• DRBFM Relationship to FMEA
  o Strengths and Weaknesses
• When to use DRBFM
• Phases of DRBFM Analysis
• DRBFM Worksheet Format
• DRBFM Development Methodology
  o Pre-Work
  o Focus on New or Changed Parts
  o DRBFM Function Section- Intentional Change
  o Noise Factors / Operating Conditions / Incidental Change
  o Failure Mode Definition
  o Potential Effects of Failure
  o Analyze Importance of the Effects and Item
  o Manufacturing Process Impacts
  o Mitigation Actions
    ▪ Drawings Updates
• Procedure for the DRBFM
• Preparations
  o Data to Supply for the DRBFM
  o Design Review for DRBFM
• Discuss the Change for Each Component
• Discuss the Failure Modes and Possible Actions
• Design for Manufacturing and Assembly Concerns
• Design Verification and Validation Requirements
• Feedback Loop and Lessons Learned
  o Update FMEA with DRBFM outcomes
  o Update Drawings and Specification Documents