Design Review Based on Failure Modes (DRBFM) Course Outline

- Introduction to DRBFM
- DRBFM Relationship to FMEA
    - Strengths and Weaknesses
- When to use DRBFM
- Phases of DRBFM Analysis
- DRBFM Worksheet Format
- DRBFM Development Methodology
    - Pre-Work
    - Focus on New or Changed Parts
    - DRBFM Function Section- Intentional Change
    - Noise Factors / Operating Conditions / Incidental Change
    - Failure Mode Definition
    - Potential Effects of Failure
    - Analyze Importance of the Effects and Item
    - Manufacturing Process Impacts
    - Mitigation Actions
        - Drawings Updates
- Procedure for the DRBFM
- Preparations
    - Data to Supply for the DRBFM
    - 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
    - Update FMEA with DRBFM outcomes
    - Update Drawings and Specification Documents

1333 Anderson ▪ Clawson MI 48017
Phone: 248.280.4800 ▪ Fax: 248.280.4804
www.quality-one.com