COURSE TABLE OF CONTENTS

# PFMEA (AIAG-VDA Process Failure Mode and Effects Analysis)

OEM: VDA • Duration: 2 Days (16 hrs)

## COURSE MODULES & TOPICS

### Module 1: Introduction to FMEA and PFMEA

- FMEA fundamentals, objectives, benefits and limitations
- Overview of DFMEA, PFMEA and supporting FMEA types
- When to conduct or update PFMEA
- Links with APQP, Control Plan and lessons learned
- Roles, responsibilities and team formation

### Module 2: AIAG-VDA Harmonised FMEA Methodology

- Overview of the seven-step approach
- Planning and Preparation: scope, boundaries, project plan
- Structure Analysis: process flow, items, steps, work elements
- Function Analysis: process functions, requirements, relationships

### Module 3: Failure Analysis and Risk Evaluation

- Failure analysis: modes, effects and causes
- Existing prevention and detection controls
- Risk Analysis: Severity, Occurrence, Detection rating concepts
- Action Priority: High, Medium, Low; interpretation and application
- Differences from traditional Risk Priority Number (RPN)

### Module 4: Optimisation and Results Documentation

- Identifying and prioritising improvement actions
- Responsibility, target dates, implementation and verification
- Reassessment of ratings and residual risk
- Documentation, review, approval and maintenance
- Linkage with Control Plan, work instructions, process monitoring

### Module 5: Implementation and Sustaining PFMEA

- PFMEA reviews during changes and continuous improvement
- Use of historical data, complaints, scrap, rework, performance
- Common implementation gaps and good practices
- Customer-specific requirements and audit readiness

### Module 6: Practical Exercises and Case Studies

- Develop process flow and define PFMEA scope
- Prepare PFMEA rows: structure, function, failure, risk, controls
- Determine Action Priority and propose risk-reduction actions
- Review sample PFMEA and identify gaps

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