AIAG and VDA PFMEA

Training course

STAGE 1 2 3 **4**

Essential information about the course

This two-day course provides you with a hands-on approach using a Case Study to develop a PFMEA using the new methodology in line with the methods specified in the AIAG VDA Failure Mode and Effects Analysis FMEA Handbook Edition 1. The course takes delegates through the new 7 step approach using the Case Study which allows delegates to practice each of the 7 steps.

Our course agenda

Day 1:	Day 2:

• AIAG and VDA – Purpose and objectives
• FMEA for products and processes
   • FMEA team roles and responsibilities
   • FMEA project planning
• 7 step approach
• Step 1: Planning and preparation
• Step 2: Structure analysis
   • Structure trees
• Step 3: Function analysis
   • Process and product characteristics
• Step 4: Failure analysis
   • Failure chain, effects, mode and cause
• Step 5: Risk analysis
   • Severity, occurrence and detection
   • Special characteristics
   • Action priority (AP)
• Step 6: Optimization
• Step 7: Results documentation
   • COQ/COPQ
	• Step 1: Planning and preparation
	• Step 2: Structure analysis
	• Step 3: Function analysis
	• Step 4: Failure analysis
	• Evaluating severity, occurrence and detection
	• Step 5: Risk analysis
	• Action priority (AP)
	• Step 6: Optimization
	• COQ/COPQ
	
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Upon successful completion of your course, you'll receive an internationally recognized BSI certificate

Who is this course for?

This course is for:

- Anyone involved in process development activities, either as a team member or leading the activities
- IATF 16949 auditors
- Anyone interested in learning more about new AIAG and VDA FMEA
- IATF 16949 auditors
- anyone involved in the implementation and maintenance of IATF 16949

What are the Learning Objectives?	What are the benefits?

You'll have the knowledge and skills to:
• Recognize the purpose, objectives of the AIAG and VDA FMEA and the 7 step approach
• Participate in the new 7 step approach including:
    • **System analysis – Planning and preparation, structure analysis, and function analysis**
    • **Failure analysis and risk mitigation – Failure analysis, risk analysis, and optimization**
    • **Risk communication – Results documentation**
• Assign severity occurrence and detection rankings using the new tables based on data provided from the Case Study
• Prioritize actions using the action priority tables (AP)
• Develop the COQ from the process FMEA activity taking account of company level data affected by the PFMEA
• Apply the steps involved to achieve a successful process FMEA using the new 7 step approach
	This course will help you:
	• Understand how to implement the 7 step approach
	• Understand how to use the severity, occurrence and detection tables
	• Understand how to use the action priority tables (AP)
	• Understand the linkages between the cost of quality and FMEA and the financial impact FMEA has on performance
	• Become a productive team member in the development of the AIAG VDA process FMEA

Prerequisites - you are expected to have the following prior knowledge:

It would be of benefit (but not essential) if you have:
- An understanding of the previous AIAG FMEA 4th Edition
- Applicable IATF 16949 requirements related to product and/or process development

This can be obtained through attendance of either our IATF 16949 Requirements or Implementation Training Course (or equivalent)

Why invest in training from BSI?

We want to make sure you have the best learning experience possible. That's why we offer a range of training courses from beginner to expert. We create a positive learning environment, so you retain the knowledge and acquire the skills that will continue to be of use beyond the course.

When you attend a BSI training course, our tutors are the best in the business. They're truly passionate about sharing their knowledge and ensuring you learn. Trusted experts with years of hands-on and business experience, they bring the subject matter to life with relevant and contemporary examples to enhance your learning.

Training delivered at your site could be a convenient and cost-effective option, especially if you have multiple delegates. Talk to one of our experts to find out more.

Next steps with the BSI Academy

Want to learn more? You may be interested in attending other core tools training courses on: Core Tools for Internal Auditors, APQP, SPC or MSA