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FMEA Facilitator Training

Follows the 2019 AIAG-VDA methodology



New products, processes and systems need to be developed faster and with increasing quality and reliability levels. Production losses, rework, warranty claims, or even brand image loss need to be prevented. Learn how to execute and facilitate risk analysis using good FMEA's as an integral and effective part of your product creation process. Reduce the time to identify the high risks and to generate a risk mitigation plan. Get enthusiastic involvement of engineers, architects, managers to increase FMEA effectiveness and completeness. The AIAG membership allows Holland Innovative to be the first to learn about developments in risk management.



Identify and mitigate your relevant risks well in time!

Register: www.holland-innovative.nl

Integration in the Product Creation Process

The FMEA, Failure Mode and Effects Analysis, is considered to be the heart of risk management of any development process,

providing a clear link between Design for Six Sigma and Design for Reliability and therefore ensures state-of-the-art products. In this training, the reference book "Effective FMEA's" from Carl Carlson is complemented with the Holland Innovative structural way of working, gained by years of experience. Goal is to reduce waste of time and effort, making FMEA's more fun to do and get focus on all the high risks. You will learn how to facilitate these effective FMEA's including the transformation into a risk mitigation plan. The FMEA will be turned into a "living document" and a risk tracking tool.

Training objectives

Apart from FMEA fundamentals, philosophy and the conventional way of filling out an FMEA format, this training focuses on a structured preparation to optimize the effort and time for the actual FMEA process. A smooth and effective FMEA creation process is dependent on a clear definition of the scope, as well as a structured prioritization, a solid operating profile and an overview of influences. This will lead to the main risks and the most relevant failure mechanisms. Moreover, the training will discuss the steps after the FMEA is completed. The defined controls and activities will be transformed into a risk mitigation plan. Risk tracking will then give insight in the risk reduction progress during the project validation phase. After this training the students are able to implement the structured FMEA way-of-working in companies and can facilitate complex FMEA's in an efficient, effective and even pleasant way for all attendees.

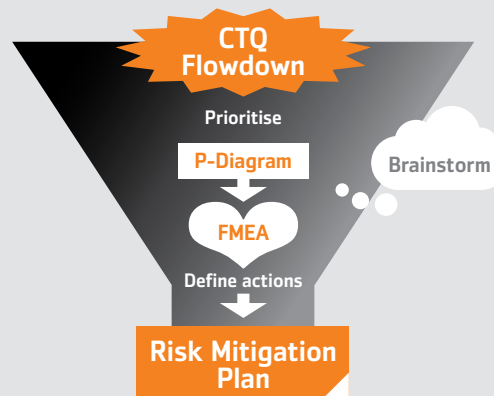
Course duration and number of participants 2 modules of 2 days each from 9.00 to 17.00. Maximum group size: 12 participants.

Instructors Marcel Logger MSc, Ir. Dorien Lutgendorf.

Location and investment High Tech Campus, Eindhoven. The investment is € 2.990,- (ex. VAT) per participant, including course material (PDF) 24/7 accessible and downloadable through our digital platform, "Effective FMEA's" by Carl Carlsson in e-book format, the AIAG-VDA FMEA handbook, 1st edition in hardcopy format, several Excel templates, forms & checklists, lunch and refreshments.

Dates, registration and more info See www.holland-innovative.nl under Academy.

Contact Team HI Academy, tel. +31 40 85 14 610, academy@holland-innovative.nl



Headquarters
High Tech Campus 29
NL - 5656 AE Eindhoven

T +31 40 85 14 610
E academy@holland-innovative.nl
W www.holland-innovative.nl



Focus on complex business processes



with a master or bachelor level, or equivalent knowledge gained through experience. Acquaintance with product development process is required. Experience and or participation in FMEA sessions is recommended.

A selection of the skills that will be learned

After an introduction into the field of FMEA's, the CTQ (Critical to Quality) flowdown and system decomposition with boundary and interface diagram are discussed to give insight in the product at hand. The results are input for the first prioritization step with the preliminary risk assessment. Several iterations with the risk maturity matrix will point out the component(s) and function(s) with the highest risk. The operation profile is supporting the creating of the Parameter or P-diagram which contains already 60 to 80% of your FMEA content. Translating the P-diagram into the FMEA format quickly leads to score and calculation of the risk priority numbers. Last but not least the FMEA is linked to the risk mitigation plan to track the risk reduction progress. Lectures are alternated with hands-on cases and exercises for each step within the FMEA process. Several tools and templates are presented to help the participant in facilitating effective and proper FMEA's.

Target group

This training is aimed at persons working in a product development environment including Process-, Product-, Quality- & Reliability engineering. Focus is on actual FMEA practitioners who want to improve their FMEA's in an effective and professional way. The training is suited for professionals

Link to Reliability Foundation Program

The Reliability Foundation program is a post-graduate education with focus on the practical aspects of reliability engineering. The program is developed in line with VDI 4002 guidelines. The FMEA Facilitator training is the RF11 workshop in the range that can lead to a Reliability Engineer (GB, BB, CRE) certification.

Contents of the FMEA Facilitator Training

- Introduction, FMEA philosophy
- FMEA fundamentals
- The AIAG-VDA 7 step approach
- Organization & skills
- System decomposition
- FMEA scope preparation
- FMEA scope prioritization
- User profile
- Parameter diagram
- From P-diagram to FMEA
- RPN & AP scoring
- Risk mitigation plan
- Linkage between DFMEA and PFMEA
- PFMEA approach
- Risk tracking & reporting
- FRACAS, lessons learned
- Monitor & evaluate
- Common errors, best practices

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Holland Innovative BV:

- For solutions in project management, product & process development and improvement, and reliability
- 40 professionals with an experience level of more than 20 years
- Market areas: HighTech, Automotive, Solar & Energy, MedTech, Agro & Food

