



# M.ACADEMY – TRAINING

## PRODUCT/PROCESS FAILURE MODE AND EFFECT ANALYSIS



### COURSE INFORMATION

<b>TITLE</b>	Product/Process failure mode and effect analysis
<b>DATE</b>	December 10-12, 2019 January 21-23, 2020
<b>LOCATION</b>	Linz, Austria / Customer Site
<b>TUITION</b>	€ 2,100 per person / Group rates available, flexible choice of location
<b>TYPE</b>	Classroom training
<b>LANGUAGE</b>	English
<b>TRAINER</b>	Michael Seidler / Senior Quality Manager Sonja Lauss / Quality Manager



### COURSE DESCRIPTION

Participants will learn how to recognize product defects as well as defects in the production process at an early stage and analyze and minimize risks, which will result in higher customer satisfaction.

Any scenario that involves product failures prior to delivery represents a huge challenge. Delivery of defective products to customers could result in lead to contract termination and/or lawsuits. Failure Mode and Effect Analysis (FMEA) can be used for existing, future, or scheduled products in order to prevent non-conformity costs, and keep customers satisfied. FMEA is particularly helpful in new product development.

- FMEA is a systematic tool used in failure analysis in order to identify a faulty component, product, or design problems (failure modes, their causes and effects).
- FMEA is a forward logic analysis with the focus on eliminating or minimizing identified product faults before they actually occur.
- FMEA results are based on experience with similar products or on common physics of failure logic for each component, product, or design.
- FMEA is mainly a qualitative analysis (evaluation of failures and risks is performed according to a point system, not in terms of financial figures).



### COURSE OUTLINE

- FMEA set-up
- FMEA preparation (document scans)
- Preparation of function analyses
- Function analyses
- Failure Mode and Effect Analyses
- Risk calculation/evaluation (RPN)
- Optimization of evaluated risks for components/products/designs
- Optimization (improvements) of components/products/designs

### WHO SHOULD ATTEND

- Production manager
- Plant manager
- Process engineers
- Quality manager
- Project manager
- Maintenance team
- Logistics expert



## PROGRAM DETAILS

### DAY ONE

- 08:30 - 10:00** FMEA Overview, History of FMEA, Requirements of FMEA  
**10:00 - 12:30** Preparation of Function Analyses  
**13:30 - 17:00** Preparation of Failfunctions within Function Analyses

### DAY TWO

- 08:30 - 09:00** Summary of day one  
**09:00 - 10:00** Practical: **Workshop Function Analyses**  
**10:00 - 12:30** FMEA (Failure Mode and Effect Analyses) Part 1  
**13:30 - 15:00** Practical: **Workshop FMEA Part 1**  
**15:30 - 17:00** FMEA (Failure Mode and Effect Analyses) Part 2  
(Calculation of Risks according RPN Number)

### DAY THREE

- 08:30 - 09:00** Summary of day two  
**09:00 - 10:00** Practical: **FMEA Part 2**  
**10:00 - 12:30** Optimization of Products/Processes according to FMEA results Part 3  
**13:30 - 15:00** Practical: **Workshop FMEA Part 3**  
**15:30 - 17:00** Summary and tips for FMEA Moderation



## ORGANIZATIONAL DETAILS

- TRAVEL** Upon registration you will receive suggestions for hotels nearby  
**VENUE** Primetals Technologies, Linz, Austria



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## FOR FUTURE INFORMATION CONTACT

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