Publication date : 01/29/2024

Course : Control risks with Process FMEA

Practical course - 1d - 7h00 - Ref. AAR
Price : 930 CHF E.T.

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This training course positions FMECA within the broader framework of continuous improvement and risk management in accordance with ISO 31000. You'll learn how to identify the critical moments and best practices in process animation, and thus avoid the pitfalls frequently encountered that make FMECA cumbersome and uninspiring.

Teaching objectives

At the end of the training, the participant will be able to:

- Understand the basic steps of FMECA
- Manage an FMECA, particularly during its critical stages
- Making an FMECA motivating and value-creating
- Use FMEA within a broader framework of continuous improvement and risk management

Intended audience

Project managers, personnel from methods, quality, production, maintenance, continuous improvement and Lean departments.

Prerequisites

No special knowledge required.

Practical details

Role-playing

Practical work, workshop based on a real case proposed by participants, used and developed at each stage of the training.

Teaching methods

Active, participative teaching methods. Alternating theory and practice with application to the context and experience of participants.

Course schedule

PARTICIPANTS

Project managers, personnel from methods, quality, production, maintenance, continuous improvement and Lean departments.

PREREQUISITES

No special knowledge required.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

1 Objectives and benefits of Process FMEA

- Distinguish between product FMECA and process FMECA.
- Identify the conditions for implementing FMECA.
- Understanding FMECA as a tool for continuous improvement.

2 Design the upstream phase of the FMECA study

- Define the team and roles.
- Anticipate the elements of the study to limit the length of meetings.
- Make sure you have correctly identified the limits of the FMECA study.

Group discussion
Share experiences to identify the motivating and de-motivating aspects of an FMECA.

3 Identify failures, their causes and effects

- Identify actual and potential failures.
- Identify causes methodically to go beyond the obvious.
- Comprehensive analysis of induced effects.

Case study
Use of complementary tools (5M, brainstorming, etc.) to ensure the most complete analysis possible.

4 Rating cause and effect to estimate the criticality of a failure mode

- Estimate severity: use severity grids.
- Estimate occurrence and detectability.
- Calculate criticality and compare it with action thresholds.
- Quote quickly and efficiently.

Case study
Criticality scoring, in particular to identify the impact of complex rating grids.

5 Define an action plan and monitor its effectiveness

- Define actions by consensus.
- Build a realistic and achievable action plan.
- Monitoring the action plan: responsibilities and approach.

Role-playing
Define together an effective corrective action sheet to motivate players to get involved. Feedback on best practices in steering improvement actions.

6 FMEA as part of a more global approach

- Integrate FMEA into the continuous improvement process.
- Improve process reliability with or without FMECA.
- Identify the complementarities between FMECA and Lean Management.
- Take advantage of 8D as part of an FMECA study.
- Use Statistical Process Control (SPC) as part of FMEA.

Group discussion
Discussions on the conditions for a well-managed process.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

Dates and locations

REMOTE CLASS
2026 : 20 Mar., 19 June, 21 Sep.