

Failure Mode and Event Analysis

Introduction

Having invested effort into designing and developing the “perfect solution” it is surprising how often Murphy’s law intervenes and “something” or several “something's” go wrong. Why didn’t we identify these risks or failures beforehand? If we had, as is often the case, they could easily have been avoided and the customer satisfaction would not have been impacted. Failure Mode and Event Analysis (FEMA) is a methodology to maximise Customer satisfaction by eliminating or reducing the impact of known or potential problems. The more demanding customer, competitive and legal environments become the lower the tolerance of failure, hence methodologies like FEMA become a must have skill.

Objectives

This two-day programme makes use of a number of different case studies to illustrate the principles and different applications of FEMA. Upon completion delegates will understand:

- How to undertake a FEMA analysis for a product, service or process
- How to apply FEMA at different stages in a Six Sigma environment
- How to organise, manage and maintain a FEMA review.
- The challenges and opportunities of applying FEMA in their organisation.

Course Content

The course contains a number of exercises that will reinforce the learning of delegates.

- FEMA overview
- Defining Scope and Boundaries
- Identifying Failure Modes
- Determining Occurrence
- Determining Severity
- Determining Detectability
- Defining Corrective Actions
- Controlling a FEMA
- Applying FEMA at different stages in a Six Sigma environment
- The FEMA process and plan
- Establishing and managing a FEMA team
- FMEA pitfalls and benefits
- FMEA and robustness
- Legal considerations
- FEMA and ISO standards and guidelines

Who should attend?

This two day course is for in-house delivery. This course is for Six Sigma Green Belts and delegates undertaking a Six Sigma Black Belt programme who want to learn more about FEMA and be able to use it in product, service and process design.

Follow on courses

The Six Sigma Black Belt programme consists of ten modules of which this is an optional component. The delegate has to complete two mandatory modules and has to choose five from the eight optional modules based on personal and organisational benefit, see the Six Sigma Black Belt course overview.

Further Information and Bookings

Contact Denis Mahoney at Business Transformation (Training and Coaching) on +44 1903 784783 or 07766 333294 or by email at denis.mahoney@business-transform.co.uk for further information.