



Who we are

S4 is a B-BBEE Level 1 black owned organisation (women in business), with over 40 years experience in industry. Our services include Quality, Occupational Health & Safety, and Environmental (SHEQ) management systems training, auditing, and consulting.

Course Reference No.: QBE-I11

57. Guide to Failure Mode & Effect Analysis (FMEA)

COURSE OVERVIEW

This 1-day course is intended for engineers, managers & supervisors, to provide them with a tool that can assist in providing reliable, safe, customer-pleasing products/processes; and improve the quality and reliability of design. This training is more effective when conducted in-house where practicals would be relevant to the workplace.

DURATION: 1 Day

PREREQUISITE: No prerequisite for this course.

WHO SHOULD ATTEND

Operations Managers, Engineers, Supervisors, and any person who is involved in identifying risks and improvements related to production and engineering.

COURSE OUTCOMES

The learner will be able to:

- Evaluate the requirements obtained from the customer or other participants in the design process to ensure that those requirements do not introduce potential failures.
- Identify design characteristics that contribute to failures and design them out of the system or at least minimize the resulting effects.
- Develop methods and procedures to develop and test the product/process to ensure that the failures have been successfully eliminated.
- Track and manage potential risks in the design. Tracking the risks contributes to the development of organizational knowledge and the success of future products.
- Ensure that any failures that could occur will not injure or seriously impact the customer of the product/process.



COURSE CONTENT

- What is a Failure Mode & Effect Analysis (FMEA)
- FMEA Key concepts
- Types of FMEA
 - Design FMEA (DFMEA)
 - Process FMEA (PFMEA)
- Benefits of FMEA
- Tools Used to Plan and Support FMEA
- How Does FMEA Work?
- How to prepare FMEA working documents

Mini case study & scenarios provided

Venue: 31 Beacon Road, Florida North, Roodepoort, 1709
Date: To be Advised

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Credits

Assessments are done in the following way:
✓ Continuous Assessment