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FAULT TREE ANALYSIS (FTA)

Introduction:

Fault tree analysis is a logical analysis using graphical technique to identify all potential failure causes. The fault tree starts with a top undesired event, which is the system failure mode for which one is attempting to identify all potential causes. The analysis then continues to sequentially develop all potential causes.

By identifying each failure cause the risk of failure can be mitigated through design alterations, and component de-rating or selection. By conducting discussions with design engineering it is often possible to mitigate each failure cause through some action. This action may be taken in design, maintenance, or even procedures.

This course is an interactive blend of presentations, case studies, exercises, hands-on training and group discussion that covers Fault Trees Analysis from the basics of their construction to advanced concepts.

Course Objectives:

This course aims to equip participants with a comprehensive understanding of:

- The key concepts, benefits and applications of Fault Tree Analysis
- How to perform a Fault Tree Analysis
- How to interpret and react to the results of a Fault Tree Analysis

Course Contents:

- Overview of Fault Tree Analysis
- Benefits of Fault Tree Analysis
- Applications of Fault Tree Analysis
- Defining the Problem and Developing Fault Tree Analysis Top Undesired Events
- Fault Tree Gate Usage and Interpretation
- Performing a Fault Tree Analysis
  – Steps
  – Logic Symbols

– Construction Rules
– Data Requirements

- Interpreting the Results of a Fault Tree Analysis

- Case Studies / Exercises

Who Should Attend:

All personnel / team members directly involved in continuous improvement / quality improvement initiatives from both the manufacturing and service (including banking and finance, logistics, healthcare, government and public service) sectors

Award of Certificate:

Participants will be issued with a Certificate of Successful Completion upon meeting 75% of the required course attendance.

Duration:

2 days (14 hours)

Course Fee:

$450 nett per trainee (GST is not applicable).

(Course fee is inclusive of all training materials and light refreshments.)