

FAULT TREE ANALYSIS (FTA)



Introduction

Fault Tree Analysis is a systematic, descriptive form of analysis that can be applied to safety and reliability analysis, desired or undesired outcomes. It determines the sets of events that cause the outcome in question. It is particularly useful in the early design phases of new system, but is equally useful in analyzing operational systems for desired or undesired outcome.

The method has the power of deduction. This means that combinations of events are considered in the casual chain. The interactions between events and subsystems are always a vital element of system function. On top of this, it leads to undesired top event, which is important from safety point of view.

This course has been written in such a way that it will systematically guide the participants to learn this method in a shortest possible time. The step by step method of guiding the participants will Also help them to learn the technique and apply in their work.

Objective

The Objectives of doing FTA is to:-

- Acquire knowledge to identify safety hazard.
- Learn the logical skill to tackle the problem.
- Deduct the outcome of events.
- Look insight of system behaviour.

Duration

2 days | 9am – 5pm | 14 hours

Who should attend

Design Engineer / Manager, Production Engineer / Manager, Industrial Engineer / Manager, Quality and Reliability Engineer / Manager, Maintenance Engineer / Manager.



SQI
INTERNATIONAL



enquiries@sqi.org.sg



www.sqi.org.sg



+65-6467 4225



1 Sophia Road #05-06/07 Peace Centre S(228149)

Course Contents

- Introduction to FTA
- Benefits and Importance of FTA
- Persons Involved in Application of FTA
- FTA and Decision Tables
- Fault Tree Building Blocks
- Finding Top Events of FTA
- Procedure For FTA Construction
- Fault Tree Analytical Process
- Minimal Cut Sets and Prime Applications
- Probability Evaluation of FTA
- Application of FTA

Course Fees

Member: S\$583.20
Non-Member: S\$648.00
Registration Fee of S\$17.28 apply
SDF funding & SkillsFuture applicable
All fees stated are inclusive of 8% GST

Award of Certificate

Certificate of Completion will be issued to participants who have attended at least 75% of the course.



Please refer to this URL
<https://www.sqi.org.sg/courses/>
or QR Code for soft copy
and updated training schedule

Membership Application

Register membership online at **www.sqi.org.sg/membership-join/** or contact us to get the membership application form.

Membership Categories:

- ~ Organisation membership
- ~ Individual membership

SQI International is a subsidiary of Singapore Quality Institute (SQI). SQI operates as a non-profit professional institute that promotes and advances excellence in the field of quality in Singapore; and actively champions quality initiatives in the region and around the world through networking and collaborating with other international quality organisations.

SQI is a World Partner of the American Society for Quality (ASQ); and a Board Member of both the Asian Network for Quality (ANQ) and the World Alliance for Chinese Quality (WACQ).

