

Fault Tree Analysis

What is it?

Fault Tree Analysis (FTA) is a “top down” assessment of how a product or system failure (or other “undesired event”) can occur based on the behavior of lower-level functions, assemblies, parts, software, and human behavior. The analysis clearly and logically identifies the fault relationships, allowing the identification of design/process weaknesses and the probability of undesirable top-level events occurring.



What's the payoff?

The analysis helps determine all potential causes of undesirable top-level events and can quantify the probability of event occurrences. It provides an efficient approach to focus on a selected subset of critical faults from all possible sources that can cause catastrophic failures.



How can we help?

- › Perform a simple or comprehensive FTA on your product or system
- › Determine and tailor the most effective reliability analysis activities for your product line
- › Train your staff in FTA methods and other reliability analysis techniques
- › Provide assistance to your staff in developing fault trees, system models and probability data
- › Provide guidance on appropriate failure characteristics used in support of FTAs
- › Objectively review FTAs performed by third parties and correct any deficiencies

