Fault Tree Analysis and Application Training

Course Duration: 1 Day - 8 Hours/day

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Seminar Content

This one-day training is designed to help your company conduct Fault Tree Analysis. Not only will you learn the fault tree symbols and methodologies, but you will also be able to create fault trees for system and component events.

Fault tree analysis is conducted by engineering teams to identify critical elements within the design which can cause a fault. Fault tree analysis can be used in critical and safety related products.

Fault tree analysis is part of ISO 26262, which is the Functional Safety standard that is applied to Safety Related Systems that include electric/electronic systems installed in production passenger vehicles, trucks & busses, and motorcycles.

Learning Objectives

- Be able to perform a fault tree analysis during any phase of the development process
- Be proficient in fault tree analysis immediately after completing this workshop
- Study examples of actual fault trees from real-world systems

Course Outline

- Chapter 1: Introduction to Fault Tree Analysis
- Chapter 2: Pre-work for FTA
- **Breakout Exercise 1: Design Scope and Item Diagram**
- **Breakout Exercise 2: Evaluate Design Based on Quality Goal**
- Chapter 3: Developing the Fault Tree Analysis
- **Breakout Exercise 3: Constructing FTA Structure**
- **Breakout Exercise 4: Cut Set of FTA Structure**
- Chapter 4: Analyzing FTA Results
- **Breakout Exercise 5: Analyzing FTA Results**

Who Should Attend

System, Software and hardware engineers, and managers responsible for the development and implementation of systems, software and hardware in a motor vehicle.

Seminar Materials

Note: Omnex does not provide copies of standard(s) during training courses, but clients are encouraged to have their own copy.

Pre-Requisite

Participants should be involved in or aware of software and hardware development as it relates to the motor vehicle industry.

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