Formation SF4



Teaching methods

Presentations with illustrated practical cases
Lunch meeting with the speaker

Prerequisites

Equivalent profile as engineer, in technical or in scientific education

For whom

Project Managers, Design Offices, Methods, R & D, Quality

Lecturer/Trainer

Expert and / or specialist

Assessment methods

Assessment sheet and selfassessment given at the end of training

Sites

PARIS / LYON / MONTREAL

Intra-company sessions on request

Contact us

For more information Phone: 438-558-1395 formation@sector-group.net



Tree Fault Analysis

Concepts and method

Objectives

The objectives of this training are to provide to the participants:

- General knowledges of the RAMST parameters RAMST (Reliability, Maintainability, Availability, Safety et Testability)
- The principles of Tree Fault Analysis and its limits
- The ability to carry out this method in a study or to be able to criticize it

Program

Introduction

- Why do we need RAMS activities?
- Why do we need a PHA analysis?
- · Concepts et definitions

Tree Fault Analysis

- Origin of the method Application domains
- · Objectives of this method
- Definitions and Acronyms
- Preliminary steps

Construction method of the Tree Fault analysis

- Boolean reduction and probability processing
- Failure rates, MTBF and MTTF
- · Probabilities of failure on demand
- Tools to obtain data: databases, validity control
- Comments on current difficulties and limitations (considering the application of RAMS in software and the human factors)

Synthesis of the Tree Fault analysis

- Advantages and disadvantages
- Conclusions about the methodology
- Bibliographic references

Case study

- Choice of the subject
- Preparation of working group
- Construction of the tree by participatory approach
- Presentation of the results
- Case study synthesis

The case study will be used for:

- Understanding the problems to be solved
- Understanding how the concept and method of the Tree Fault analysis can provide solution
- Overviewing concrete examples

Concepts and methods will be presented by the trainer, who will complete the presentation with examples.