

Training program BOOLEAN Package

Aim

Learn how to use BOOLEAN package in the GRIF-Workshop software platform in order to perform reliability/availability calculations and evaluate the **SIL** (Safety Integrity Level) of safety instrumented loops in line with standards IEC 61508 & 61511.

Characteristics

Duration: 3 days

Cost: 4,950€ HT in intra ⁽¹⁾ - 1,890 € / person HT in SATODEV office ⁽²⁾

People concerned:

- ↳ Reliability and availability engineers mastering the Boolean approaches and wishing to use the tool GRIF Boolean package.

Program

Morning 1: Fault Trees module presentation (Tree): creating trees, events configuration and probability law, launching computations, results analysis.

Afternoon 1: Fault trees practical works and using of advanced functionalities (batch calculations, databases).
Use of BFiab module (Reliability Block Diagram)

Morning 2: Remaindering on reliability and availability and standard IEC 61508, use context and presentation of SIL module functionalities presentation: Creating architectures, component settings, launching computations, advanced functionalities.

Afternoon 2: Use of SIL module. Practical works with examples of safety instrumented loops.

Morning 3: Remaindering on Events Trees. Presentation of ETree module, tree settings, consequence configuration and risk matrix. Simple practical works.
Presentation of Reseda module (Reliability network)

Afternoon 3: Use of different method in a same system. Make calculations using Event Trees, Fault Trees, Reliability Block Diagrams and Safety Instrumented Systems together.

Documents Supplied

- **Software:** Software will be provided in Training version on a USB key that will be given to the attendees.
- **Digital presentation:** Files will be provided in PDF and PowerPoint format.
- **Paper presentation:** Slides will be also provided in paper format.

Practical information

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Training activity has been registered under the number 72 33 08199 33 in Aquitaine/France

⁽¹⁾ Intra-company: Training is done in customer office. This training can contain some parts that are specific for the customer needs. The maximum number of trainees is 6. The cost of this training does not include "Transportation and Living" of the trainer.

⁽²⁾ In Satodev office: The training held in SATODEV office (MERIGNAC) with up to 4 trainees from different companies. Lunch is included.

