Formation SF6

Duration:

1 day

HAZOP (HAZard and OPerability) analysis

The principles and the implementation

Objectives

The HAZOP analysis is an approach to improve safety and processes for an existing installation or a project by :

- Conducting the study in a working group gathering different occupations: safety, engineering, operation, maintenance, etc…
- Implementing a method of analysis related to installations with fluid circuits
- Taking into consideration the safety standards.

Program

General principles of HAZOP (HAZard and OPerability studies)

- Definition, application framework, origin of the method
- Notion of risk and operability concept

Description of the method

- Definition of the system to be studied
- Familiarization with the system
- Specific elements of the method
- Presentation of HAZOP file
- Analysis of the failure and implementation of the recommendations
- When can we use the HAZOP analysis?
- Application of the method on a study case

Development

- Preparation of the study
- Establishment and management of the working group
- Monitoring the recommendations of the working group

Impacts of the HAZOP analysis

- Immediate impacts:
  - Improved safety of the plants
  - Compliance with safety standards
  - Improvement the safety of the plant, capitalization of the feedbacks
- Subsequent impacts :
  - Reliability-centered maintenance (RCM)
  - Predictive analysis of incidents/accidents

Importance of the HAZOP analysis in a RAMS approach

- Functional analysis
- Preliminary Hazard Analysis
- Similar methods to HAZOP analysis
- Root-cause analysis, state graph
- Limits of the HAZOP analysis

Deepening of the knowledge and putting into practical

- Case study

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 self-assessment given at the end of training

Sites

PARIS / LYON / MONTREAL

Intra-company sessions on request

Contact us

For more information
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