

## PFD & P&ID's and Cause Effect Chart

### General Objectives

The aim of this subject is to familiarize the participants with the process drawings in order to provide them with the ability to read and understand PFD's, P&ID's and a cause effect charts. Participants will also be able to draw simple process flow schematic using relevant symbols and codes. The contents will cover the symbology and detailed analysis of the different process drawings using examples of typical oil & gas production installations.

### Specific Objectives

At the end of training the trainees will be able to:

- Interpret symbols, cods and other information detailed on process flow diagrams (PFDs) and piping and instrument diagrams (P&IDs);
- Demonstrate an understanding of the basic engineering standards utilized on PFDs and P&IDs;
- Draw a simple process flow schematic using relevant symbols and codes;
- Detail the design criteria and objectives expected from the information provided on a PFD;
- Describe the equipment used to achieve the objectives from the information provided on a P&ID;
- Interpret the control process of equipment from the information provided on a P&ID;
- Read and understand the equipment affected when the alarm is activated.

### Audience

All Staff involved production facilities units.

### Prerequisites

The prerequisites necessary to attend this course are:

- Have access to a computer or tablet with an Internet connection and a browser (program to browse the web), such as Chrome, Safari, Firefox or Internet Explorer.
- You can access the course from any computer (for example, at home and at the office), tablet or smartphone.

### Workload:

30 Hours

### Conteúdo Programático

#### Module 0 – Presentation of Platform and Method of Use

**Module I – Process Flow Diagrams**

**Module II – Piping and Instrument Diagrams**

**Module III – Definitions of Piping and Instrument Symbols**

### Metodologia

Este curso tem sempre presente o formador, que irá mesmo dar a formação presencial através da plataforma.

O Formando pode intervir juntamente com o formador ou com os restantes formandos tal como faz na sala de aula.

As apresentações e exercícios serão sempre disponibilizados pelo formador no final de cada sessão de formação.

No final do curso receberá um Certificado de Formação Profissional caso frequente pelo menos 90% das aulas, realize os trabalhos e os testes propostos, participe nas discussões online e tenha avaliação final positiva.

Esta formação é certificada e reconhecida.