

## Course Description

<b>Course name</b>	<b>#502 - Understanding Process Control Used in Process Industries</b>
<b>Duration</b>	<b>2½ days</b>
<b>Format</b>	<b>Public classroom, Inhouse events and Online</b>

### Overview

Mr. Wissem Bouaita, IFP School and Chimie ParisTech, France, is teaching this 2-day course in Process Control in Process Industries

Control in process industries refers to the regulation of all aspects of the process. Precise control of level, temperature, pressure and flow is important in many process applications.

This course introduces you to advanced process control in process industries, explains why control is important and identifies different ways in which precise control is ensured for the main process equipment such as chemical reactors, pumps, compressors, fired heaters and heat exchangers just to name a few.

The course also introduces you to Safety Instrumented Systems SIS, Alarm Systems and Interlock: their anatomy, their requirement, their functions and how they are represented in engineering drawings such as Piping & Instrumentation Diagrams, more commonly referred to as P&ID's.

### Course Content

The course includes extensive graphics and industrial process control schemes for each major piece of equipment found in the process industry, as well as numerous Safety Instrumented Systems that will be broken down for you into easily digestible concepts.

The knowledge gained on this course will help you to understand all process control loops and safety systems so that you can draw the correct information from them.

### Who Should Attend

- Plant Operators
- Process control engineers & technicians
- Instrumentation engineers & technicians
- Design engineers & technicians
- Maintenance engineers & technicians
- Mechanics
- People who work with Lockout/Tagout safety systems

## Course Daily Schedule

### ***Day 1 first half***

- *Piping control*
- *Rotating equipment control*

### ***Day 1 second half***

- *Heat transfer equipment control*
- *Container and vessel control*

### ***Day 2 first half***

- *Safety and Instrumented Systems (SIS)*

### ***Day 2 second half***

- *Alarm Systems*

## Instructor Biography

**Mr. Bouaita, Chemical Engineering, IFP School and Chimie ParisTech, France**, received his Master of Science in Chemical Engineering in 2008 from IFP School and Chimie ParisTech in France. His main thesis subject was petroleum refining and petrochemical processes.

For the last 12 years Mr. Bouaita has worked in oil refineries and petrochemical plants (steam cracking, PE, PP). He has been involved in plant operation, process design, project implementation, business analysis and plant management.

With the increasing awareness of training being a necessity and the advent of e-learning playing a major role, Mr. Bouaita has founded WR Training, an e-learning platform providing online chemical engineering courses for professionals in Oil & Gas and Chemical industries.

During the last 2 years, WR Training has reached 15000 students in 140 countries and taught more than 20000 hours.

Mr. Bouaiata has been a member of the Continuing Education Institute-Europe faculty since 2020.