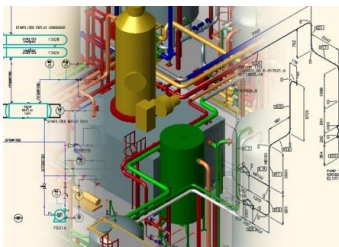


## Specialized in PIPING ENGINEERING (Industrial pipes) ON-LINE training

### Aimed to:



Engineering, chemistry, physics, energy, and other degrees or professionals related to the demand of the labor market

### Purpose:

Piping Engineering Specialization, increasingly demanded by the labor market, being essential in **SECTORS** such as:

- Mining,
- Oil&Gas,
- Refineries,
- Chemical & petrochemicals,
- Energy,
- Transport,
- Engineering, etc...



All of them with personnel needs with up-to-date piping knowledge.  
**Today's potential EMPLOYMENT.**

### Methodology:

Our methodology is eminently **practical and participative**, always starting from the most updated business environment, focusing all contents in exercises and **real cases** of projects carried out by teachers, active professionals. To obtain the Certificate, a Final Project will be solved.

The course is **ON-LINE**, through an interactive e-learning platform, dynamic and with all the facilities of **communication** with the specialist faculty.

## Content:

### 1.- Course presentation.

### 2.- Symbology and Representation.

- 2.1.- Process project documentation / piping.
- 2.2.- Diagrams, implantation plan, equipment plans, etc.
- 2.3.- Isometrics.

### 3.- Process engineering.

- 3.1.- Fluids and basic process data
- 3.2.- Diameters calculation
- 3.3.- Process conditions. Design conditions.

### 4.- Pipe types. Materials, regulations and applications.

- 4.1.- Pipe typology
- 4.2.- Main materials
- 4.3.- Main implementing regulations

### 5.- Pipes characteristics.

- 5.1.- Dimensions
- 5.2.- Design data
- 5.3.- Thicknesses calculation

### 6.- Unions and accessories.

- 6.1.- Welded, flanged and threaded joints
- 6.2.- Measurement and control devices
- 6.3.- Welding of steels

### 7.- Valves

- 7.1.- Description, technical characteristics and types
- 7.2.- Application for a proper valve choice
- 7.3.- Latest generation designs

### 8.- Pipes support (I).

- 8.1.- Location and support types
- 8.2.- Thermal expansion and stress calculation

### 9.- Pipes support (II)

- 9.1.- Auxiliary Structures
- 9.2.- FEM: Finite element method – ANSYS
- 9.3.- Racks

### 10.- Project and assembly.

- 10.1.- Assembly and testing.
- 10.2.- legalization.

### 11.- Stress calculation.

### 12.- COURSE FINAL PROJECT. Real case study.

## Evaluation:

To obtain the Certificate the participants must:

- **Themes** evaluation: Solve each theme evaluation
- **Final Project** positive evaluation before established deadline
- Discussion forums **participation**, working groups and other proposed activities to be developed in the online platform.

## Schedule:

**Total duration:** 60 hours

**Estimated time of completion:** 3 months after registering

**Start:** 1st day of each month.

**Assessment tests:** One per subject, to be delivered on set dates

**Final project:** To be delivered before the end of the course and before unsubscribing the e-learning platform.

## Registration:

Complete course: **725 €.**

**Discounts** possibility by sending an initial voucher, to:

- ✓ Unemployed: 20% discount.
- ✓ Companies: 10% (second registration); 20% (from the third registration).
- ✓ Collaborating Entities Members: Up to 20% discount.

**Payment** via PayPal, Credit Card by virtual TPV in Web or by bank transfer

- ✓ Deposit reference specification: Piping **ON-LINE** Specialization + Name of the Student.

Direct e-learning platform **registration** the 1st day of each month, after making the payment.

More **Information** and **Registration:** 954 67 36 31 or 636 50 57 19  
[www.cubicoff.com](http://www.cubicoff.com) and [www.ps-recursoshumanos.com](http://www.ps-recursoshumanos.com)

**Collaborating professionals. Management and Training Team:**



**DAVID PÉREZ SIGÜENZA**  
**CEO of Cubicoff Ingeniería Abierta. Program Director**

Senior Industrial Engineer and Senior Management degree by the San Telmo International Institute. More than 20 years of professional engineering business management experience, construction and consulting.



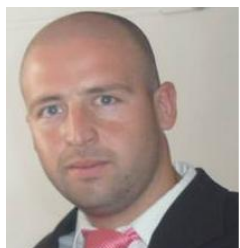
**JUAN GALLEGO GARCÍA DE VINUESA**  
**Technical Director at Surtruck. Trainer**

Senior Industrial Engineer and Senior Management degree by the San Telmo International Institute. Specialized in singular structures calculation (FEM AND BEM). More than 20 years in design, management and mechanical manufacturing.



**NATALIA ROMÁN SUTIL**  
**Industrial Engineer at Atria Power. Trainer**

Senior Industrial Engineer, Mechanical Specialty. More than 10 years in basic and detail engineering with pipes and stress calculations specialization. Combined cycle and thermosolar plants projects.



**JESÚS MANUEL TAGUA GONZÁLEZ**  
**Engineering Director at Urva Fluidos. Trainer**

Industrial Chemical Engineer by the University of Seville, with postgraduate in water treatment and management by the University of Valencia. More than 6 years of experience in industrial and environmental engineering



**MACARENA PÉREZ SIGÜENZA**  
**P&S Human Resources Director. Coordinator**

Pedagogy and Psychology Degree, Master in Human Resources, EOI Business School and Coach MBA. More than 15 years of experience in human resources consulting, business training and coaching.