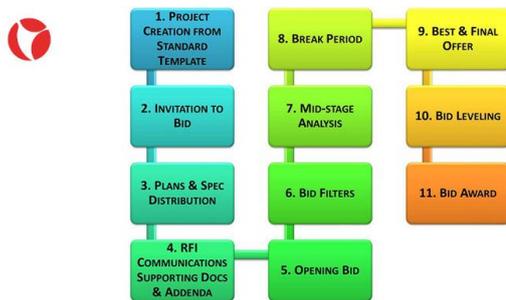




# FACT SHEET (SELF-GUIDED)

## Introduction to Industrial Projects



**Introduction to Industrial Projects: Terminology and Acronyms: Types of Industries, Petrochemical, Power Generation, Mining, Industrial projects, Phases of a project, Sequence of an EPC project.**

### Who Should Attend?

This course is intended for graduates (or soon to be), designers, freelancers, technicians and engineers involved in: calculation, design, selection, manufacturing, safety, quality and maintenance of systems and equipment in industrial processes.

Previous knowledge of this subject is not required to attend to the course.

### Training Objectives

The main objective of this course is to transfer to participants the theoretical and practical skills required in projects, obtained from experience and sound engineering practices.

### What to Expect?

**Learn** about types of industries: oil & gas, power generation, mining.

**Identify** the features of a project: types, parties, documentation, tender, awarding, construction.

**Get familiar** with the most used type of contracts: delivery method, payment method.

**Assimilate** the sequence of EPC projects: planning, engineering, procurement, construction.

### Course Duration

**Full Course: 40 hs;** to be completed in 30 days. The Virtual Campus will be open for 60 days (flexibility).

### Methodology

Self-guided Hands-On

Available 24/7

“Learn by doing” concept

Non-scheduled sessions

Specialist Instructor available throughout the course

### Included in the course

Study Notes

Summary Videos

Conceptual Questions

Case Studies based in real designs

Design & calculation sheets



## Contents

### Lesson 1: Types of industries

#### Types of industries

Oil & gas

Power generation

Mining

#### *Proposed Case Studies*

- Assimilation test

### Lesson 2: Features of a project

#### Industrial projects

Types of projects

Budget, Schedule, Quality

Parties to a project

Request for tender

Project awarding

#### Phases of a project

Concept appraisal

Concept development

Design and documentation

Construction

#### *Proposed Case Studies*

- Assimilation test

### Lesson 3: Most used type of contracts.

#### Project contracts

Risk management

Contractor selection

Delivery method

Payment contract

Contracts used in industrial projects

#### *Proposed Case Studies*

- Assimilation test

### Lesson 4: Sequence of EPC projects

#### Sequence of an EPC project

Scope

Project management

Planning

Quality management system

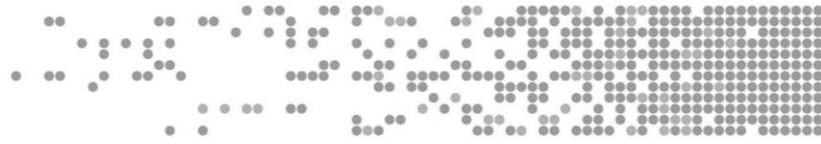
Engineering

Procurement

Construction

#### *Proposed Case Studies*

- Assimilation test



## Instructor

Senior Mechanical Engineer and Master in Business Administration (MBA). **More than 20 years of experience in design, calculation and fabrication of pressure vessels, heat exchangers, storage tanks, piping systems and structures in general.**

Duties of the above-mentioned positions cover the entire cycle of an equipment, **from the very conception, drawings, design and calculation, technical specifications, technical requisitions, vendor drawings, to the manufacturing phase and installation assistance.** Among the developed projects, clients such as SHELL, EXXON, REPSOL, CHEVRON, GALP, CEPESA, TUPRAS and SAUDI ARAMCO can be found.

**Vast experience providing specific training sessions in both classroom and online approaches. More than 75 training courses carried out** in different institutions and in-company, courses oriented to graduates, designers, engineers and experienced professionals.

## Tailored Training

The most effective training is one that satisfies the needs of each company's business focus and deliverables. **We adapt our training programs to each specific requirement, offering bespoke solutions for each need.** The result, 100% tailored programs, developed to maximize the time investment and deliver tangible and intangible returns to the work teams.

After an assessment phase, a tailored training plan is de-signed jointly with the client. This plan is specifically tailored to meet the client's needs, focusing on effectively enhancing the capabilities of the work team. **We provide practical, dynamic and hands-on training,** making available the best instructors in each subject.

## Arveng Training

**Arveng Training has developed effective and practical courses for the needs of today's industrial challenges by delivering specific and high-quality engineering training courses utilizing all three approaches: classroom, on-line and tailored training.** We are proud to have imparted more than 100 classroom courses, 200 online courses and over 15 in-company sessions. Our training activities has benefited over 1,500 professionals. Our greatest pride is in the letters of recommendation we receive from so many of our customers in this area.

**We consider the time of our students as the most valuable.** For this reason, all our courses have been designed with the main objective of quickly the professional skills of the participants, through our expert instructors in different disciplines. **We stimulate creativity, innovation and initiative to make the participants inquisitive to bring good engineering practices and lessons learned to the field that benefits their employers in the long term.**

## Our Company

**Arveng Training & Engineering SL is a leading company providing Training and Engineering services based in Madrid, Spain.** Our mission and vision are to be a leading training and engineering services company. We are a team of highly motivated , talented high qualified professionals with more than 20 years of experience. Our main goal is to provide our clients, the best training and engineering services and to exceed their expectations in all their spheres of industrial activity, through our renowned services which are based on efficient, innovative, cost-effective and transparent principles.

Established in July 2010, mainly oriented to the industrial sector, from the very beginning Arveng has always worked with closeness, responsibility and commitment in the different areas of activity.