

FACT SHEET

Introduction to Industrial Projects



Introduction to Industrial Projects 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.

Methodology

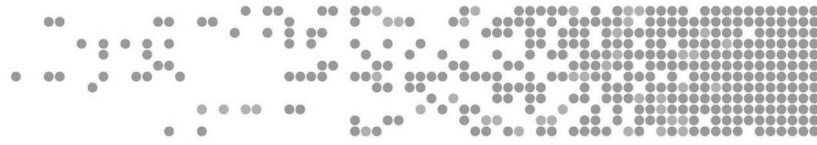
Training course with **live classes**. Instructor-led, using an adult learning approach that includes discussions, individual exercises, and simplified case studies, providing practical knowledge for implementation in the field.

Duration

The duration of this training will be determined based on the specific needs of each edition and its scope. The content will be structured into different sessions designed to facilitate progressive learning.

What to expect?

- Acquire the vocabulary used in projects
- Understand the basics of Petroleum industry
- Understand the basics of Power Generation
- Recognize the different areas of Mining
- Distinguish the different types of projects
- Understand the stages in a project
- Comprehend delivery and contract terms
- Learn the most used contract types
- Get familiar with EPC projects terminology



Contents

Main industrial sectors

Description of processes

Main characteristics of the sectors

Oil & gas

Power generation

Mining

Process and equipment requirements

Industrial projects

Types of Projects

Budget, Schedule, Quality

Parties to a project

Owner | Designer | Contractor

Request for tender

Project awarding

Phases of a project

Concept appraisal

Concept development

Design and documentation

Construction

Contracts used in projects

Risk management

Contractor selection

Project delivery method

Turnkey | Fast track project

Method of payment

Contract payment method

Contracts used in industrial projects

Sequence of an EPC project

Scope of a project

Stages of the project:

E | Engineering

P | Procurement

C | Construction

Project Management

Planning

Quality management system

Engineering Disciplines

Procurement

Construction

Available Resources:

Petroleum animations: extraction, refining, LNG

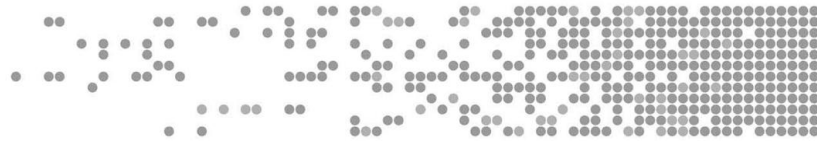
Power Generation animations: Thermal, renewable

Comprehensive charts

Real projects documents

Interactive presentations

3D illustrations



Instructor

Senior Mechanical Engineer and master's 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, CEPSA, TUPRAS and SAUDI ARAMCO can be found.

Vast experience providing specific training sessions in both classroom and online methodologies. 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 designed 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 solutions for today's industrial challenges by delivering specific, high-quality engineering courses utilizing three different approaches: classroom, online, and tailored training. We are proud to have imparted more than 500 classroom courses, 1800 online courses, and over 250 in-company sessions. Our training activities have benefitted over 6500 professionals, our greatest accomplishment of all.

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

Our Company

Arveng Training & Engineering 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.