

Introduction to Foundations Technologies



The course is designed for both staff involved in the foundation sector for the civil engineering industry and those without any direct experience. The course provides general overview of the main foundations technologies and their application fields, of the principles and techniques of drilling foundation and on the various kinds of machines used.

Course topics

General topics:

- Overview on Ground engineering techniques and their applications
- Soil and rock classifications and characteristics, Soil investigation
- Equipment and Ancillaries
- Introduction to Jobsite Safety
- Main quality controls - Process and Product tests
- Case histories

Specific topics:

- Driven Piles and Bored Piles
- Continuous Flight Auger Piles / Cased Auger Piles / Cased Secant Piles
- Displacement Piles / Turbojet® / Deep Soil Mixing
- Diaphragm walls and Barrettes (*Grab or Hydromill*)
- Micropiles and Anchors
- Jet Grouting
- Tunnels technologies

Duration

5 days

Languages

**English, Italian
or any other language upon
client's request**

Location

**Cesena (FC) - Italy
or any customer's site**

Audience

**Site Managers;
Engineers;
Operative Crew;
Rig Supervisors;
Sales Agents.**

Prerequisites

**No experience in engineering
foundation sector needed**

Learning objectives

**To acquire the main concepts
of engineering foundations;**

**To learn the construction
phases of the various
technologies;**

**To learn the various kinds of
drilling rigs;**

**To have an introduction to sa-
fety and quality concepts.**