

TRUSTED PARTNER IN THE TENDERING AND DETAIL PHASE**REASONS TO CHOOSE ACIRE**

1. EXPERTS IN DESIGN AND CALCULATION
2. NATIONAL AND INTERNATIONAL EXPERIENCE
3. SUPPORT THROUGHOUT THE ENTIRE PROJECT
4. CLOSE RELATIONSHIP WITH SUPPLIERS
5. COOPERATION WITH UNIVERSITIES

**SERVICES**

- ARCHITECTURE
- GEOTECHNICS
- FOUNDATIONS AND STRUCTURES
- CORROSION STUDIES
- HYDROLOGY AND HYDRAULICS
- ENERGY ANALYSIS AND PROJECT FINANCE
- PHOTOVOLTAIC SYSTEMS
- TECHNICAL DUE DILIGENCE
- ENERGY EFFICIENCY
- BASE PROJECTS
- ACIRE ACADEMY

ACIRE

ACIRE ACADEMY**ADVANCED COURSE IN STRUCTURAL AND GEOTECHNICAL
CALCULATION OF FOUNDATIONS OF PHOTOVOLTAIC
STRUCTURES USING STEEL PROFILES****CONTENT PROGRAM****MODULE 1: INTRODUCTION TO CALCULATION AND APPLICABLE REGULATIONS**

- 1.1. Introduction to structural and geotechnical calculation of foundations
- 1.2. Regulations, standards and technical specifications

MODULE 2: TYPOLOGIES OF FOUNDATIONS

- 2.1. Foundation typologies
- 2.2. Geotechnical principles for the dimensioning of foundations

MODULE 3: DIMENSIONING OF FOUNDATIONS

- 3.1. Foundation calculation principles
- 3.2. Foundation stability checks
- 3.3. Geotechnical verifications of foundations

MODULE 4: STRUCTURAL CALCULATION OF FOUNDATIONS

- 4.1. Structural dimensioning in ULS
- 4.2. Structural verifications in SLS
- 4.3. Effect of loss of structural section due to corrosion

MODULE 5: PRACTICAL CASES

- 5.1. Final Exercise 1
- 5.2. Final Exercise 2
- 5.3. Final Exercise 3

ACIRE ACADEMY**ADVANCED COURSE IN STRUCTURAL AND GEOTECHNICAL
CALCULATION OF FOUNDATIONS OF PHOTOVOLTAIC
STRUCTURES USING STEEL PROFILES****COURSE ADDRESSED TO:**

Course aimed at engineers, architects and technicians in general, who want to know in depth the structural calculations and geotechnical verifications necessary for the proper dimensioning in detail of the foundations by means of steel profiles for the module support structures in photovoltaic projects.

AIM:

The primary objective is to provide all attendees with the technical knowledge contained in current reference standards and regulations, the necessary calculation tools and the know-how and criteria used today in specialized companies in the civil sector to satisfactorily face any project situation from a point of view based on reliability and efficiency. Therefore, this course is conceived from a practical point of view and focused on obtaining results.

METHODOLOGY:

Each module will have classes through an audio-video virtual classroom. Attendees will be able to follow these classes synchronously or asynchronously. They will also work on the different contents of the course using the online platform that will allow them to carry out e-learning training, evaluation activities, download audio-video material, read texts, and communicate and interact with the teacher and with the rest of the students through email and forums.

TRAINER:

Álvaro Márquez - Professional with education in Civil Engineering by the University of Granada. Master in Distributed Renewable Energies by the University of Córdoba. Training in Project Finance and Business Valuation by Enerclub. More than 10 years of experience in research, technical office and construction supervision in several companies in the construction, industrial and energy sectors.

ABOUT ACIRE

ACIRE is a global consultancy focused on architecture, civil engineering and renewable energy projects.

We provide differential value in the architecture, engineering and renewable energy sector, based on a multidisciplinary approach to projects and with a vocation for innovation and optimization

ACIRE is formed by a team of professionals specialized in civil and mechanical engineering, architecture and management, with extensive national and international experience.

As a trusted partner, we are committed to providing techno-commercial solutions and technical and financial advice to our clients around the world, with the main objective of achieving even more competitive and profitable investments, and generating sustainable growth for our clients, our employees and our company.

