Universidad Zaragoza

Academic Year: 2025/26

28629 - Integrated Quality, Safety and Environmental Management

Teaching Plan Information

Academic year: 2025/26
Subject: 28629 - Integrated Quality, Safety and Environmental Management
Faculty / School: 175 - Escuela Universitaria Politécnica de La Almunia
Degree: 422 - Bachelor's Degree in Building Engineering
ECTS: 6.0
Year: 4
Semester: First semester
Subject type: Compulsory
Module: Materia básica de grado

1. General information

The purpose of this subject is to train future technical architects with basic knowledge in quality, safety and environmental management to ensure that the processes they develop in their professional future are managed in an appropriate manner to ensure their successful completion. . For this purpose, documentation of management systems according to ISO 9001, ISO 14001 and ISO 45001will be created as part of the teaching activities

2. Learning results

- Plan, design and implement the necessary documentation for quality management on construction sites
- Design safety and environmental management on construction sites
- Choose and use the appropriate quality, safety and environmental management standards for the creation of procedures that establish homogeneous and effective work systems.
- Synthesize the management systems required in the different activities of the building industry into an integrated management system.
- Explain and plan the process of implementation, certification and auditing of management systems.
- Ability to manage quality control on construction sites, drafting, application, implementation and updating of management systems documentation.

3. Syllabus

Unit 1. **Building Quality and Quality Management**

Introduction, building quality and quality management

Unit 2. **Management of occupational risk prevention in construction works.**

Documentation of on-site prevention management

Unit 3. **Building Environment**

Introduction to environmental management and environmental management with ISO 14001

Unit 4. **Process of implementing and certifying management systems in a company**

Implementation and certification process. Integrated Management ISO 9001-ISO 14001-ISO 45001:2018

4. Academic activities

- Lectures: presentation of the course content, duration 20 hours
- Problems: examples of the creation of management system documentation in class, duration 40 hours Study and personal work: completion of assessable work and preparation of test, duration 84 hours Assessment tests. 6 hours

5. Assessment system

Continuous Assessment

-Exercises and proposed works

- Subject quality and safety. 2 points, minimum grade 0.9 point to be able to add the rest of the grades the subject

-Written evaluative tests

- Quality and safety. 3 points, minimum grade 1.35 point to be able to add the rest of the grades of the subject

- Environment and integrated management. 5 points, minimum grade 2.25 point to be able to add the rest of the grades of the subject

Assessment in Call

There will be two theoretical and practical tests that will have a score of 100% of the total grade of the subject, the tests will include questions related both to the theoretical part of the subject and to works similar to those carried out during the semester. Students will only take the remaining part of continuous evaluation.

- Quality and safety issues. 5 points, minimum grade 2.25 points to be able to add the rest of the grades of the subject
- Environment and integrated management. 5 points, minimum grade 2.25 points to be able to add the rest of grades of the subject

6. Sustainable Development Goals

5 - Gender Equality
8 - Decent Work and Economic Growth
12 - Responsible Consumption and Production