

Academic Year/course: 2022/23

63288 - The Production Environment of Industrial and Building Processes

Syllabus Information

Academic Year: 2022/23

Subject: 63288 - The Production Environment of Industrial and Building Processes

Faculty / School: 107 - Facultad de Educación

Degree: 584 -

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ECTS: 6.0

Year: 1

Semester: Second semester

Subject Type: Optional

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives and focuses in collaborative learning and on the most practical aspects of the subject.

The sessions will provide the student with knowledge and skills to carry out different practical cases. These cases have been raised in such a way that each student applies different techniques for managing activities in the productive environment of industrial and construction processes throughout the course. Students are expected to participate actively in the class throughout the semester.

In the sessions with the complete group, the most theoretical aspects are discussed in the form of a master class and are completed with immediate applications.

The evaluation is focused on the most practical aspects. It is intended to promote both continuous work and individual effort and planning has been made so that the hours of dedication are balanced each week.

Classroom materials will be available via Moodle. These include a repository of the lecture notes used in class, the course

syllabus, as well as other course-specific learning materials, including a discussion forum.
Further information regarding the course will be provided on the first day of class

4.2. Learning tasks

This is a 6 ECTS course organized as follows:

- 2 ECTS classroom: Tipo 1.
- 1 ECTS practices: Tipo 2.
- 2 ECTS practical work.
- 1 ECTS review and presentation of practical cases, active tutoring, lectures and visits to companies.

4.3. Syllabus

The course will address the following topics:

1. Lectures

Module 1. Quality management systems

Quality concept.

Quality management systems.

Principles of ISO 9001: 2008

ISO 9001 Requirements:

Difficulties and benefits of the implementation of a Quality Management System.

Module 2. Document management of quality in high schools.

Practical applications. Review of a quality system implemented in a center. Visit to a high school to see how the quality system has been implemented and updated.

Module 3. Prevention of occupational risks.

Legislation on Prevention of occupational hazards.

Risk factors and situations

Accident analysis (types, causes, effects, statistics ...)

PPE's: classification and use

First aid

Emergencies

Evacuation rules

Precautionary measures

Module 4. Document management of security in high schools.

Practical applications. High school performance related to safety. Review of the security systems implemented in a high school.

Module 5. Environmental management.

Legislation on environmental protection.

Waste management

Implementation of ODS

Module 6. Document management of environmental issues in high schools.

Practical applications. Characteristics of educational centers related to the environment and waste management.

1. Practice sessions

Type 2 (in the classroom and in small groups)

Study and development of examples of management models for activities related to the productive environment of industrial and construction processes developed in the previous modules.

1. **Autonomous work and study**
2. **Active tutoring for the orientation and presentation of the work, company visits, speaker presentations or fairs related to the subject.**

4.4. Course planning and calendar

6 ECTS: 150 h / student, with the following distribution:

Master classes (weeks 1, 3, 4 and 6): 23 h

Practical classes (weeks 2, 4, 5, 7 and 8): 22 h

Directed work: 30 h

Individual study: 72 h

Evaluation test: 3 h

The calendar may vary depending on the date of completion each year of visits.

Punto 5

4.5. Bibliography and recommended resources

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=63288>