

68901 - Safety in the workplace

Syllabus Information

Academic year: 2023/24

Subject: 68901 - Safety in the workplace

Faculty / School: 102 - Facultad de Derecho

Degree: 462 - Master's in Occupational Health and Safety

ECTS: 7.0

Year: 1

Semester: First semester

Subject type: Compulsory

Module:

1. General information

The aim is for students to learn about the risks involved in the work activity from a practical approach, learning from professionals from different areas of knowledge about the problems and possibilities to solve the activities carried out at work that involve a risk to the worker.

Adequate planning of the workload is advisable, in accordance with the teaching program and taking into account the deadlines for the delivery of the proposed works.

These approaches and objectives are aligned with Sustainable Development Goal (SDG) 8.8 of the United Nations Agenda 2030 (<https://www.un.org/sustainabledevelopment/es/>), so that the acquisition of the learning results of the subject provides training and competence to contribute to some extent to its achievement.

2. Learning results

The student, in order to pass this subject, must demonstrate the following results:

- To know and know how to interpret the meaning of **safe working conditions**.
- To **ensure** safe working conditions.
- To know the fundamentals of **safety inspection** and **accident investigation**.
- To know and know how to apply the different **risk assessment** systems.
- To identify **potential hazards** on machines, and define and apply appropriate **safety measures** in each case.
- To define and identify the **hazards** and the possible **protection systems** against electrical, chemical, fire and explosion risks.
- To know and know how to apply the basic principles of **safety signalling**, as well as the management and classification of **personal protective equipment** and **collective protective equipment**.

3. Syllabus

The foreseen syllabus for this subject is the following:

- Concept and definition of safety.
- Workplaces and workspaces.
- Safety in work equipment.
- Safety signage.
- General accident risk analysis and assessment.
- Risk prevention in industrial installations: Welding, boilers, pressure equipment, elevators, forklifts, air conditioning and compressed air.
- Electrical risk.
- Individual protection.
- Collective protection.
- Chemical products and toxic waste.
- Handling, storage and transportation.
- Fires. Basic concepts.
- Fire prevention.
- Accident investigation as a preventive technique.
- Safety inspections.

4. Academic activities

Teaching may be developed through the following types of academic activities:

- Master classes.
- Visit/s to industrial facilities.
- Solving of practical exercises
- Attendance to seminars or conferences.

5. Assessment system

The student must demonstrate achievement of the intended learning results through the following assessment activities:

- **Active participation** in theoretical and practical classes.
- **Completion of learning exercises.** In each topic, the teachers will present exercises based on the practical application of the knowledge transmitted, the purpose of which is to internalize it correctly. The assessment will take into account the precision of the answers and the knowledge of the subject.
Important: The learning exercises will be completed and delivered individually. Group works will not be accepted, unless expressly authorized by the corresponding teacher.
- **Global exam** of the subject. There will be a global exam of the subject for those who have not passed the continuous evaluation, as previously described, or who previously communicate their intention to take it to the coordinator of this subject. The call for exams will be communicated to students during the first semester. The test may include both theoretical and practical questions posed by the teachers of the different parts of the subject. A scientific calculator will be required for the exam.