

## 68576 - The productive environment of Chemical, Health, Agrarian Processes, etc.

### Información del Plan Docente

<b>Academic Year</b>	2018/19
<b>Subject</b>	68576 - The productive environment of Chemical, Health, Agrarian Processes, etc.
<b>Faculty / School</b>	107 - Facultad de Educación
<b>Degree</b>	371 - University Master's in Professional Development Teaching: Chemical, Sanitary, Personal Image, Agrarian, Maritime-Fishing, Food and Community Service Processes 415 -
<b>ECTS</b>	4.0
<b>Year</b>	XX
<b>Semester</b>	Indeterminate
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### 1. General information

#### 1.1. Aims of the course

The general objective of the subject is to initiate the students of the specialties of "Chemical Processes, Sanitary, Agrarian, Maritime-Fishing, Food, Community Services, and Personal Image" of the Master in concepts and tools on their own subjects of prevention of labor risks, protection of the environment and waste management and, that they will be able to develop as professors in these matters. This is the beginning of a training that should have continuity throughout their professional life, raising awareness and motivating them towards the protection of health and safety at work, the protection of the environment and the promotion of quality, aspects of these , of great importance when it comes to inculcating them to their future students in Vocational Training.

They will also be presented with examples and good practices in workshops and laboratories of vocational training centers, in the various specialties reviewed.

The students must:

- Prepare a portfolio that includes remarkable aspects of the subject
- Know and use some sources (magazines, online publications, Web page, ...) appropriate to this level.
- Analyze examples of preventive and environmental management.
- Develop analytical activities (in terms of prevention of occupational risks, environment, waste management and quality) in relation to the Practicum.

#### 1.2. Context and importance of this course in the degree

This subject is part of Module 5 that is responsible for the training of students in Specific Competition 4. "Plan, design and develop the program and the learning and assessment activities in the specialties and subjects of its competence", Subcompetencia 3 : "Competencies related to the organization and development of activities".

It is a compulsory subject for students who take vocational training courses.

From this perspective, it provides students with a necessary complement to their training, which they can then take to the classroom and be a reason for raising awareness among their future students.

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### 1.3.Recommendations to take this course

Class attendance is recommended, participating actively in face-to-face sessions (group activities, seminars, discussions and debates) and in the tutorials.

### 2.Learning goals

#### 2.1.Competences

Apply the regulations related to safety, prevention of occupational risks and health related to the productive sectors in the field of Chemical, Sanitary, Agrarian, Maritime-Fishing, Food, Community Services and Personal Image.

Analyze the measures of protection in the environment of the work environment related to the specialties indicated in the title.

Propose activities for the development of competences related to relations in the world of work:

communication techniques  
teamwork  
conflict resolution  
decision making, leadership  
driving groups

#### 2.2.Learning goals

- Apply processes of management and maintenance of equipment and facilities in the work environment of the specialties reviewed.
- Analyze the interpersonal relationships that are developed in companies as a professional framework.
- Analyze safety regulations, prevention of occupational risks and health, as well as assess the importance of their application.
- Analyze and relate the environmental regulations related to the productive sector of the specialties indicated in the title.
- Develop applicable social skills in the work environment.
- Prepare and make an oral presentation of a work of analysis of a case of activity design in relation to the prevention of occupational risks, quality or the environment, in the environment of any of the specialties that appear in the title, associated to the Practicum.

#### 2.3.Importance of learning goals

Protection of health at work, working safely are two important aspects within the labor framework. In the same enclave moves the protection to the environment and the correct management of waste generated from work practice. In addition to these aspects, in the work environment are very important human relationships and get to have some tools that strengthen social skills.

Future teachers, in their initial training, should familiarize themselves with these concepts and usual practices in the field of the company; On the other hand, they are highly valuable competences to be transmitted to future students in Vocational Training.

### 3.Assessment (1st and 2nd call)

#### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

The student must demonstrate that he has achieved the expected learning outcomes through the following assessment activities

A system of continuous evaluation is established in the tasks and / or activities that will be carried out in the classes and

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that are specified in the 3 following sections:

### 1. Student's portfolio

The portfolio should incorporate reflections on the productive environment and the professional, personal and social skills of the specialty, highlighting those contents, documents, references and activities that have been most appropriate and interesting for the acquisition of knowledge and skills, as well as a Self-evaluation of the activities carried out. (Individual)

### 2. Analysis of the productive and educational environment

Perform a work of analysis of the productive and educational environment of the specialty, in small groups following the indications and criteria set for the specialty, considering: the situation of the professional environment in which the professional is going to carry out his activity, occupation and more relevant jobs, foresight in the sector, quality in educational centers and relevant aspects of the prevention of labor risks and the management of quality and the environment linked to the specialty. You can choose to carry out the work following the Service Learning methodology.

### 3. Oral presentation

Present and defend the analysis of the productive and educational environment of the specialty. He will prepare a PowerPoint presentation or, failing that, an expository script. Students will have a maximum time between 15 and 20 minutes (depending on the number of members of the group) to perform the oral defense of work, which will be coevaluada by the rest of students.

Students who do not opt for continuous assessment, do not pass the subject by this procedure or want to improve their qualification, will have the right to take a global test, which will be fixed in the academic calendar. The global evaluation test will have the following sections:

### 1. Portfolio

It will consist of a reflexive analysis on the difficulties and specific characteristics that the learning of the professional family selected by the student, deepening in the competences and knowledge included in the specialty and evaluating and selecting the most relevant strategies for the learning and evaluation activities.

### 2. Analysis of the productive and educational environment

Prepare, present and defend an analysis of the educational environment of the professional family (including quality in educational centers) and the productive environment of an LOE degree corresponding to their specialty, with special emphasis on the situation of the professional environment in which they are going to carry out its activity, occupation and most relevant jobs, foresight in the sector and relevant aspects of the prevention of labor risks and the management of quality and the environment, as well as in the bibliography. The students will have a maximum time of 15 minutes to perform the oral defense of the work.

### 3. Oral examination

Question time, about the content and programmed learning activities, which will allow both a sampling of knowledge on the subject, and assess the skills that are treated in the subject. The global test will be based on the program of programmed learning activities.

Works will be presented through the Moodle Platform of the Digital Teacher Ring of the University of Zaragoza.

## Qualification criteria

When opting for continuous evaluation, the specific weight assigned to each of the evaluation sections is as follows:

30% of the final grade corresponds to the student's portfolio.

40% of the final grade corresponds to the analysis of the productive and educational environment.

30% of the final grade corresponds to the oral presentation of the analysis of the productive and educational environment (10% corresponds to the co-evaluation of the rest of the students). The rubric used for the co-evaluation of the presentations is available on the Moodle platform.

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Each section will be scored from 0 to 10. Although some work is done in a group, the members can obtain different grades. If the mark obtained in any of the previous sections is less than 4, the subject will be considered not passed, regardless of the grades obtained in the rest.

In order to be eligible for continuous assessment, the student must attend at least 80% of the sessions of the subject. If the student chooses the global test, the specific weight assigned to each of the evaluation sections is as follows:

20% of the final grade corresponds to the student's portfolio.

40% of the final grade corresponds to the analysis of the productive and educational environment..

40% of the final grade corresponds to oral exam.

In case of presenting to the global test to improve, the higher grade obtained will always prevail.

Each section will be scored from 0 to 10. If the mark obtained in any of the previous sections is less than 4, the subject will be considered not passed, regardless of the grades obtained in the rest.

### **Evaluation criteria**

When evaluating the activities, the following aspects will be considered:

In the evaluation of the student's portfolio, the design project and the teaching-learning activity, the following will be taken into account:

- Structure of the reports (coherent articulation of the different sections).
- Clarity and quality of the writing.
- Orthography.
- Correct use of the cited and referenced methods.
- Organization of the theoretical and practical contents developed.
- Materials and methods used.
- Applicability of the designed proposals.
- Accuracy in determining available resources.
- Originality.
- Justification and argumentation of the decisions made.
- Assessment of the results obtained.
- Analytical, critical and self-critical capacity.

In the evaluation of the oral defense, the following will be taken into account:

- Presentation of the information in a clear, rigorous and in a logical sequence, that the audience can follow.
- Appropriate use of the established time (neither excess nor defect), managing to discuss all aspects of their work.
- Relevance and originality of the resources used (of good quality and increase the interest of the audience).
- Use of body language and voice (facial expressions and body language generate interest and enthusiasm on the subject, establish eye contact and is heard by the entire audience throughout the presentation).
- Justification and argumentation of the decisions made
- In the group exhibitions, the coordination between the different members that intervene.

In continuous evaluation, the student will know his qualification at least three days before the global test so that he can choose to present himself to it (whether it is suspended, or if for other reasons he considers it appropriate), after giving notice to the person in charge of the subject.

Following the rules of the University of Zaragoza, fraud or total or partial plagiarism in any of the evaluation tests will lead to the suspension of the subject with the minimum grade, in addition to the disciplinary sanctions that the center adopts, once informed by the faculty responsible for the subject.

Any student may be called to tutorship to fully or partially defend any of the evaluation tests presented in order to guarantee the original authorship and participation in all of them.

## **4.Methodology, learning tasks, syllabus and resources**

### **4.1.Methodological overview**

Se llevará a cabo una exposición sobre algunas líneas actuales en materia de prevención de riesgos laborales y medioambiente en las especialidades de Formación Profesional reseñadas.

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Se proporcionarán directrices que sirvan de gui3n para la elaboraci3n de un trabajo de an3lisis de un caso (taller o laboratorio de formaci3n profesional), de car3cter individualizado.

Se analizar3n en clase ejemplos y algunos estudios de riesgos laborales y medioambiente. Los estudiantes, en grupos, deber3n sacar consecuencias aplicables en la docencia

Se realizar3n presentaciones orales, individuales y en grupo, utilizando los medios inform3ticos apropiados para esta asignatura.

Las exposiciones se acompa3anar3n de presentaciones en pantalla que incluyan textos, gr3ficos, im3genes, v3deos, p3ginas web, etc.

### 4.2.Learning tasks

In-person activities (40 hours). The sessions will be face-to-face.

Training activities and organization:

- \* Design of activities, materials, ....., For the productive sector indicated in the title: 1 ECTS
- \* Activities following the methodology of case analysis: 1 ECTS
- \* Individual work of review of documentation and bibliography and portfolio preparation: 2 ECTS

Resources used in the subject:

- \* Computer media and Internet access for searches of materials, scientific articles, videos, PowerPoint presentations
- \* Journals of a scientific nature, publications, ...

Exhibition and synthesis of contents

Analysis of texts, case studies, examples and projects

Debate in class.

Oral presentations.

Design of activities of various types related to the fundamental nuclei of the subject

### 4.3.Syllabus

- Social skills and entrepreneurial initiatives: opportunity to create companies and their impact in the context of action
- Management and maintenance of equipment and facilities in the educational center.
- Relations with the productive environment, in the specialties that appear in the title
- Preventive and environmental management: planning, management of purchases and storage, of the documentation generated in a workshop.
- Social skills applicable in the work environment: communication in the company, problem solving and decision making.
- Command styles. Work motivation Teamwork. Conflict resolution.
- Prevention of occupational risks: safety regulations, prevention of occupational risks and health, Work accidents: types, causes, effects and statistics. Personal protective equipment (PPE): types and criteria for use. First aid in case of accidents in the Professional Training workshops of the specialties that appear in the title. Occupational diseases
- Environmental protection and waste management related to the productive sector of the specialties indicated in the title.
- Identification of problems related to teaching-learning in the mentioned specialties of FP. Approach of solutions.

### 4.4.Course planning and calendar

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Sessions and the dates of presentation of activities and works will be published in the Digital Teacher Ring (Moodle Platform).

Students will have the materials, activities, recommendations and presentation dates in the Digital Teacher Ring (Moodle Platform).

Presentation and monitoring of the different activities, as well as the work, will be done through the aforementioned platform.

### **4.5. Bibliography and recommended resources**