

Course guide

220582 - 220582 - Workplace Risks Prevention

Last modified: 19/04/2023

Unit in charge: Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 732 - OE - Department of Management.

Degree: MASTER'S DEGREE IN MANAGEMENT ENGINEERING (Syllabus 2012). (Optional subject).

Academic year: 2023 **ECTS Credits:** 3.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: JOSEP PICANYOL LÓPEZ

Others: Primer quadrimestre:
JOSEP PICANYOL LÓPEZ - 1

PRIOR SKILLS

As this is a subject that aims to provide an overview of Occupational Risk Prevention, no specific prior knowledge is required.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

1. Identify, analyze, diagnose, design and implement solutions to complex socio-technical systems

TEACHING METHODOLOGY

The teaching methodology is divided into three parts:

1. Face-to-face sessions of presentation of theory and debate of the contents (*).
2. Homework sessions of guided activities.
3. Autonomous learning work of study and realization of exercises and activities.

(*) In the event that the face-to-face sessions cannot be held due to force majeure, they will be held via streaming.

Theory

In the content presentation sessions, teachers will introduce the theoretical bases of the subject, concepts, methods and results, illustrating them with convenient examples to facilitate their understanding. The debate will be encouraged.

Directed activities

The homework sessions of guided activities will consist of the development of practical and research cases, developed outside the university. Teachers will propose tasks that students must solve individually, applying the theoretical concepts for solving various situations, based at all times on critical reasoning.

Autonomous learning

The students, autonomously, must work on the material provided by the teachers and the result of the directed activities in order to assimilate and fix the concepts. The teaching staff will provide a study plan and follow-up activities to ATENEA.

LEARNING OBJECTIVES OF THE SUBJECT

They can be indicated:

- Initiate students in the approach to the basic concepts of occupational risk prevention.
- Bringing students in a general way closer to the essential concepts of the occupational risk prevention legislation.
- Introduce students to certain concepts used in occupational risk prevention such as information and training, responsibilities, organization and economics of prevention.
- Introduce students to the essential aspects of business, technical and operational management of occupational risk prevention.

STUDY LOAD

Type	Hours	Percentage
Guided activities	16,0	21.33
Hours medium group	3,0	4.00
Self study	48,0	64.00
Hours large group	8,0	10.67

Total learning time: 75 h

CONTENTS

Module 1: The Labour health. Conceptual bases

Description:

The health and his determinants
Work and Health
The labour health

Related activities:

Activities directed by modules 1, 2 and 3
Practical exam at the end of the 10 modules

Full-or-part-time: 3h

Theory classes: 1h
Self study : 2h

Module 2: Conditions of work

Description:

Working conditions
Working conditions in Europe
National Survey of Working Conditions
Survey of Working Conditions of Catalonia

Related activities:

Guided activities that can be scored by modules 1, 2 and 3
Practical exam at the end of the 10 modules

Full-or-part-time: 6h

Theory classes: 1h
Guided activities: 3h
Self study : 2h

Module 3: The work accident and the professional illness

Description:

Damage to the health of workers
Accidents at work and occupational diseases
Insurance and prevention of occupational hazards
Accident notification and registration
Accident rate

Related activities:

Guided activities that can be scored by modules 1, 2 and 3
Practical exam at the end of the 10 modules

Full-or-part-time: 10h

Theory classes: 3h
Guided activities: 3h
Self study : 4h

Module 4: The juridical protection of the health of the workers: the right of the prevention of labour risks. National and International organisms

Description:

General introduction
Community regulations
Internal law

Related activities:

Guided activities that can be scored by modules 4, 5 and 6
Practical exam at the end of the 10 modules

Full-or-part-time: 8h

Theory classes: 2h
Guided activities: 3h
Self study : 3h

Module 5: The Law of prevention of labour risks

Description:

General introduction
Object of the Law and scope
The role of the Public Administration in matters of prevention: INSHT, the Labor Inspectorate, the Mutual Societies for Work-Related Injuries

Related activities:

Guided activities that can be scored by modules 4, 5 and 6
Practical exam at the end of the 10 modules

Full-or-part-time: 6h

Theory classes: 2h
Self study : 4h

Module 6: The economic assessment of the prevention of labour risks

Description:

General introduction
Costs for society, costs for the company and costs for the worker
Insured costs and uninsured costs
Total loss control

Related activities:

Guided activities that can be scored by modules 4, 5 and 6
Practical exam at the end of the 10 modules

Full-or-part-time: 3h

Theory classes: 1h
Self study : 2h

Module 7: Query and Participation of the workers

Description:

Representation system
Unitary representation. Union representation
Prevention delegates
Health and Safety Committee
Information and training for all workers
Consultation and participation through employee representation

Related activities:

Guided activities that can be scored by modules 7 and 8
Practical exam at the end of the 10 modules

Full-or-part-time: 8h

Theory classes: 2h
Guided activities: 3h
Self study : 3h

Module 8: Organization of the preventive activity

Description:

Modalities of the organization of prevention in the company
The employer assumes it directly
Designated workers
Own prevention service
Alien prevention services
Prevention audits. Legal environment

Related activities:

Guided activities that can be scored by modules 7 and 8
Practical exam at the end of the 10 modules

Full-or-part-time: 8h

Theory classes: 2h
Guided activities: 3h
Self study : 3h

Module 9: business Management of the prevention of labour risks

Description:

Prevention policy
Prevention information in the company
Prevention training
Documentation
Negotiation
Coordination of business activities
Analytical techniques
Analytical techniques prior to the accident
Post-accident analytical techniques
Risk assessment
Analysis of working conditions
Planned observations
Security inspections
Ordinary inspections / internal audits
External audits
Accident investigation
Operating techniques.

Related activities:

Guided activities that can be scored by modules 9 and 10
Practical exam at the end of the 10 modules

Full-or-part-time: 10h

Theory classes: 2h
Guided activities: 3h
Self study : 5h

Module 10: Systems of responsibility in matter of Prevention of Labour Risks

Description:

Legal system
Criminal liability
Civil liability
Disciplinary liability

Related activities:

Guided activities that can be scored by modules 9 and 10
Practical exam at the end of the 10 modules

Full-or-part-time: 13h

Theory classes: 2h
Guided activities: 6h
Self study : 5h

GRADING SYSTEM

Continued evaluation

To assess student learning continuously, two aspects will be considered:

1. Directed activities in homework format with a weight of 50%
2. Practical exam to be developed in the university school with a weight of 50% (*)

The final grade will be the weighting of the sum of the average of the guided activities and the grade of the practical exam.

Note improvement

In the event that there is a student who wants to improve the mark of the continuous assessment (of the average of the directed activities plus the practical exam) you will have the opportunity to take a final face-to-face exam (individually). (**).

Final evaluation

In the event that there is a student who wants to opt for the final assessment system, he / she will have the opportunity to take a final face-to-face exam (individually) (**).

(*) In the event that it is not possible to take the practical exam at the university school in person due to force majeure, they will be carried out electronically.

(**) In the event that it is not possible to take the final exam at the university school in person due to force majeure, they will be carried out electronically.

EXAMINATION RULES.

The homework sessions of guided activities will take place both individually and in groups (depending on the type of activity).

The practical exam to be developed in the university school will be done in groups.

The final exam will be done individually.

RESOURCES

Audiovisual material:

- ATENEA. Resource

Hyperlink:

- Web de la Fundación Europea para la mejora de las condiciones de la vida y de trabajo. Resource
- Web del Instituto Nacional de seguridad y Salud en el Trabajo. Resource
- Web de la Agencia Europea para la Seguridad y Salud en el Trabajo. Resource