

Safety Management in Construction (250719)

General information

School:	ETSECCPB
Departments:	751 - Departament d'Enginyeria Civil i Ambiental
Credits:	5.0 ECTS
Programs:	1140 - MÀSTER UNIVERSITARI EN ENGINYERIA ESTRUCTURAL I DE LA CONSTRUCCIÓ (pla 2015)
Course:	2015/2016
Course language:	Castellano

Faculty

Responsible faculty: Gonzalo Ramos Schneider

Teachers: Gonzalo Ramos Schneider, Manuel Valdes Lopez, Ignacio Valero Lopez

Generic objectives

Subject to prepare students to be able to manage a construction site considering risk prevention and working conditions

- Capability to take into account the aspects related to occupational risk prevention and working conditions in the workplace

Job security. General aspects. Prevention planning. Organization of prevention. Machinery and equipment. Electricity . Fire . Prevention management applied to the construction sector.

Prevention management in construction building works , industrial works and civil works. Risks and preventive measures. Studies of health and safety. Health and Safety Plans

Skills

Specific skills

To apply innovative and sustainable technological aspects in the management and implementation of projects and works.

To analyze the multiple technical and legal conditions arising in the construction of public works, and use proven methods and proven technologies with the aim of achieving greater efficiency in construction while respecting the environment and protecting the safety and health of workers and users of public works.

Generic skills of subject

To conceive, design, analyze and manage structures or structural elements of civil engineering or building, encouraging innovation and the advance of knowledge.

To develop, improve and use conventional materials and new construction techniques to ensure the safety requirements, functionality, durability and sustainability.

To define construction processes and methods of organization and management of projects and works.

To design plans for safety, quality and environmental and socioeconomic impacts related to the construction process.

ECTS credits: total hours of student work

		Dedication	
		Hours	Percent
Supervised Learning	Theory	20.00	44.4%
	Assignments	0.00	0.0%
	Laboratory	25.00	55.6%
	Supervised activities	0.00	0.0%
Self-Learning		80.00	

Contents

Master Classes

Dedication

20.0h. Theory + 25.0h. Laboratory

Description

Introduction to safety and health in construction

Regulations and Legislation

Health and Safety Study

Study Safety and Health 2

Safety Plan and Health 1

Plan Safety and Health 2

Individual protections

Collective Protections

Disciplines of Occupational Risks

Urban Resilience

Course work

Site visit

Activities

Grading rules (*)

() The evaluation calendar and grading rules will be approved before the start of the course.*

The course grade is obtained from the performance of course work (50 %) and examination (50 %)

Test rules

If the test is not performed or work can not be overcome the subject

Teaching methodology

Master classes with the development of course work and the completion of one or two visits to combine works. Therefore there is much work in the classroom and personal work outside the classroom. The material is available in Athena

Office hours

In accord with teachers

Basic bibliography

- Varios. **Gestión de la Prevención de Riesgos Laborales**. Mutua Universal.
- José Hernández. **Manual de Seguridad y Salud en la Construcción**.
- Varios. **Recomendaciones relativas a Seguridad y Salud para la ejecución de estructuras**. ACHE.
- Varios. **Seguridad y Salud en la Construcción**. ETOSA.