

Course guide

240820 - 240820 - Master's Thesis

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Unit in charge: Barcelona School of Building Construction
Teaching unit: 732 - OE - Department of Management.

Degree: MASTER'S DEGREE IN OCCUPATIONAL HEALTH AND SAFETY (Syllabus 2016). (Project subject).

Academic year: 2024 **ECTS Credits:** 9.0 **Languages:** Spanish

LECTURER

Coordinating lecturer: Rogelio López Bravo

Others: Pedro Mondelo, Ramón Ferrer, Fernando García Benavides

PRIOR SKILLS

The Master's Thesis is a project in which the student must show the knowledge acquired in the different subjects that make up the master's degree. It is a synthesis work in which a specific topic will be addressed, well chosen by the student or a topic offered by any of the departmental sections.

REQUIREMENTS

To take the TFM, the student has to choose a director of their work and then fill in a proposal signed by him and by its director. The TFM proposal is evaluated by a commission. At the moment it is accepted, the student is informed and at that time you can already enroll in the TFM. From this moment the student can develop his TFM.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CE5PRL. (ENG) Reconèixer l'estructura del sistema preventiu: organismes públics amb competències i mutues, interpretar la legislació i normativa tècnica específica en matèria de seguretat en el treball i aplicar els coneixements tècnics adequats per a efectuar avaluacions de riscos i plantejar mesures correctores davant perills generals relacionats amb els llocs de treball, instal·lacions, equips de treball, riscos d'incendis i explosions. Identificar tècniques afins a la prevenció: seguretat en el producte, gestió de bens patrimonials i seguretat vial, i aplicar les tècniques de comunicació en matèria de prevenció de riscos laborals.

CE12PRL. (ENG) Desenvolupar plans d'emergència i seguretat, elaborar plans de formació i informació destinats a treballadors, incloent la detecció de necessitats i l'establiment de sistemes d'avaluació i mesures de seguiment; plantejar mesures correctores en front a riscos de naturalesa química, física o biològica; realitzar avaluacions de riscos i plantejar mesures correctores en front a riscos relacionats amb la càrrega física i mental de treball; realitzar el disseny d'estudis epidemiològics per identificar factors de riscos d'origen laboral, aplicar els fonaments, utilització i aplicacions de les principals tècniques d'anàlisi químic en el camp de la higiene.

CE15PRL. (ENG) Fomentar conductes, hàbits, consums i estils de vida saludable, junt amb la participació activa dels treballadors com a protagonistes de la seva salut. Fomentar la cultura preventiva a l'empresa i la recació d'entorns saludables.

Generical:

CG3PRL. (ENG) Adaptar-se als canvis, sent capaç d'aplicar tecnologies noves i avançades, modificacions legislatives i altres progressos rellevants, amb iniciativa i esperit emprenedor.

CG4PRL. (ENG) Resoldre problemes complexos i prendre decisions: establir criteris mitjançant la utilització d'eines adequades per a la presa de decisions; crear, identificar i avaluar alternatives; desenvolupar i revisar decisions.

CG5PRL. (ENG) Desenvolupar les habilitats d'aprenentatge autònom per a mantenir i millorar les competències pròpies de la prevenció de riscos laborals i de la seguretat industrial, que permetin el desenvolupament continu de la professió.

Transversal:

CT1PRL. (ENG) Emprenedoria i innovació. Conèixer i entendre l'organització d'una empresa i les ciències que regeixen la seva activitat; tenir capacitat per entendre les normes laborals i les relacions entre la planificació, les estratègies industrials i comercials, la qualitat i el benefici.

CT2PRL. (ENG) Sostenibilitat i compromís social. Conèixer i comprendre la complexitat dels fenòmens econòmics i socials típics de la societat del benestar, tenir capacitat per a relacionar el benestar amb la globalització i la sostenibilitat; aconseguir habilitats per utilitzar de forma equilibrada i compatible la tècnica, la tecnologia, l'economia i la sostenibilitat.

CT4PRL. (ENG) Ús solvent dels recursos de la informació. Gestionar les adquisicions, l'estructuració, l'anàlisi i la visualització de dades i informació en l'àmbit de l'especialitat, i valorar de forma crítica els resultats d'aquesta gestió.

Basic:

CB6. Possess and understand knowledge which provide a basis or opportunity to be original in the development and/or application of ideas, usually in a context of research.

CB7. The students must be able to apply the acquired knowledges and their ability of resolution of problems in new or little known environments inside more wide environments (or multidisciplinary) related with their study field.

CB8. The students must be able to integrate knowledges and front to the complexity to formulate opinions from an information which, being incomplete or limited, includes reflections about the social and ethical responsibilities linked to the application of their knowledges and opinions.

CB9. The students must be able to communicate their conclusions and the knowledges and ultimate reasons which support to specialised and non-specialised audiences in a clear mode and without ambiguities.

CB10. The students must possess the learning abilities which allow them to continue studying in a way which should be to a large extent self-directed and autonomous.

TEACHING METHODOLOGY

There are two modalities of the development of the TFM:

A-Center

A1 - Work carried out with an EPSEB professor director without any external link with a company.

A2 - Work carried out with an EPSEB professor director and in collaboration with a company ONLY for data collection (WITHOUT financial remuneration). This document must be filled out and taken to the School Secretary.

Once the enrollment is completed, the content of the TFG can begin to be developed. This must be prepared according to the regulations of the

EPSEB in terms of presentation. Regarding the development of the work, the director of the same will mark the guidelines for the student

through regular meetings.

Once the development is finished, the student must deposit the TFM electronically. At that time a message will arrive at the director of the TFM to validate it. Once validated, the student will be informed of the date for the defense of their work as well as the evaluating court.

LEARNING OBJECTIVES OF THE SUBJECT

The objectives of the TFG are:

- . Put into practice the knowledge and skills acquired
- . Write rigorous, clear, accurate and traceable technical reports
- . Search and find by yourself the necessary information to carry out the parts of the project
- . Effectively handle the legislation and regulations applicable to the area in which you carry out your project
- . Reasoning, formulating and defending before third parties based on proven results



CONTENTS

Field of occupational health and safety in which the TFG is done

Description:

Depending on the area in occupational health and safety and the specific topic of the TFM

Full-or-part-time: 270h

Guided activities: 25h

Self study : 245h

GRADING SYSTEM

The TFM will be defended before a tribunal formed by the teaching staff of the master's degree. The duration of the exposure should be around 20 minutes.

Later, the court will ask the questions it considers.

Once the defense is finished, the court will meet with the director of the TFM and evaluate the work.

The court may propose the work for Honors if it considers it so and the grade is equal to or greater than 9.