

25850 - Standardizing and Certifying Products

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	271 - Bachelor's Degree in Industrial Design and Product Development Engineering
ECTS	7.5
Year	
Semester	Second Four-month period
Subject Type	Optional
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

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

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The learning process that has been designed for this subject is based on the following:

The proposed methodology seeks to encourage the student's continued work and focuses on the most practical aspects of Product Homologation and Certification.

In the sessions with the complete group the most theoretical aspects are treated in the form of a master class and are completed with immediate applications consisting of small practical cases.

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The subject's practices are focused on the documentation of the CE marking of different industrial products. The evaluation is focused on the most practical aspects of the subject. It is intended to encourage both group work and individual effort and has been planned so that the hours of dedication are balanced each week.

5.2.Learning tasks

The program offered to the student to help achieve the expected results includes the following activities ...

Types 1 + 2 (in traditional classroom and with the whole group):

Module I: Industrial quality. (10h)

T1: Concepts of standardization, certification and accreditation (5 h)

T2: Industrial quality infrastructure (5 h)

Module II: CE Marking (5h)

T3: CE Marking. Declaration of conformity (5 h)

Module III: Homologation (8h)

T4: Requirements and regulations for the homologation of products (4 h)

T5: Notified bodies and approval centers (4 h)

Module IV: Legal Metrology (12 h)

T6: Management of Metrology Laboratory (6 h)

T7: Legal Metrology (6 h)

Module V: Product Marketing (10 h)

T8: Product labeling (6 h)

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T9: Internationalization of the product (4 h)

Final theoretical exam

Type 3 (in laboratory or computer room and in small groups)

8 sessions (3 h./session)

Type 4 (field practice in small groups)

2 visits (3 h. / visit)

5.3.Syllabus

The program offered to the student to help achieve the expected results includes the following contents ...

Module I: Industrial quality.

- * Concepts of standardization, certification and accreditation
- * Industrial quality infrastructure

Module II: CE Marking

- * CE marked. Declaration of conformity

Module III: Homologation

- * Requirements and regulations for the homologation of products
- * Notified bodies and approval centers

Module IV: Legal Metrology

- * Management of the Metrology Laboratory
- * Legal Metrology. Expression of the measurement result

Module V: Product Marketing

- * Product Labeling
- * Internationalization of the product

5.4.Course planning and calendar

Planning

7.5 ECTS credits: 187.5 hours / student distributed as follows:

- * 45 h. Classes (3 classroom hours per week in 15 weeks): Types 1 + 2
- * 24 h. Laboratory practices (8 sessions of 3 hours face-to-face): Type 3
- * 6 h. Visits: Type 4
- * 40.5 h. Theoretical study
- * 60 h. Practical works (practical cases and deliveries corresponding to the sessions of laboratory practices)
- * 2 h. Exam

5.5.Bibliography and recommended resources