

60641 - Environmental legislation and management systems

Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	540 - Master's in Industrial Chemistry
ECTS	9.0
Course	1
Period	Annual
Subject Type	Compulsory
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

5.2.Learning activities

5.3.Program

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Program

1.-Basis of the Management Systems

1. Scope
2. Standards, rules and Law.
3. Standardization, certification, accreditation.
4. Manual, Procedures and Records.
5. Auditing
6. Process Management

Practical exercises

2.-Quality management

- a. History of quality management
- b. Statistics
- c. ISO 9001 Standard
- d. Deployment and certification
- e. Practical exercises

3.-Environmental management systems.

- a. Legal regulations
 - i. Air quality and Noise
 - ii. Water
 - iii. Soil
 - iv Waste

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v Integrated environmental control model

b. Administrative procedure

c. ISO 14001 standard

d. The EMAS management instrument.

e. The EU Ecolabel

f. Practical exercises

4.- Occupational health and safety management systems

1. The history of the Occupational safety.
2. Legal regulations.
3. Occupational Health and safety integration.
4. Work-related Harm
 1. Work-related Injuries
 1. Machines
 2. Products
 3. Facilities
 4. Activities
 2. Work-related disease/illness
 1. Occupational health.
 2. Ergonomics
 3. Psycho-sociology applied.
5. Occupational Health and safety risk management.

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1. Legal requirements
 2. OHSAS 18001
 - Practical exercises
 - 5.-Quality Management in the laboratory.
1. Uncertainty, calibration, traceability and standards.
 2. Good laboratory practices: GLP
 1. Origins and implementation fields
 2. Principles: Quality assurance, control and evaluation.
 3. The Model: chapters;
 4. Assessment.
 5. The QA unit.
 3. The Standard ISO 17025
 1. Origin and implementation fields.
 2. Assessment and accreditation activities.
 3. Contents: management and technical requirements.
 4. Comparison with other models: ISO 900 and GLP
 4. Interlaboratory tests.
 1. Definition. Types.
 2. Results assessment.
 3. The Standard ISO 17043
 5. Exercises.

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6.-Other contents:

1. European Union (EU) and Environmental Law
 1. Environmental Legal Concept. Environmental International Law. EU Environmental Law.
 2. Programmes of Action. The European Agency of Environmental Law
 3. Principles of the EU Environmental Law. Public and private agents of environmental protection.
 4. The Right to a Healthy Environment as a Human Right and Chemicals
2. Chemicals Legislation
 1. REACH Regulations: General Overview. REACH Regulations: Registration. Evaluation. Authorisation. Restrictions. Information. The European Chemicals Agency (ECHA).
 2. CLP Regulation: Classification, Labelling. Packaging of substances and mixtures. Nanomaterials.
 3. Chemicals, Environment and Consumer Protection. Food products. Medicines.
 4. Chemicals, Environment and Industry. Biotechnology.
 5. Hazardous substances. Seveso Directives. Carcinogens.
 6. Chemicals, Environment and Agriculture. Pesticides. Biocidal Products Legislation.
 7. Dioxins, Furans, Polychlorinated biphenyls and Health.
 8. The Ambient Air Quality. Volatile Organic compounds. Persistent Organic pollution.
 9. EU Waste legislation. Medical Waste.
 10. Export and import of Chemicals

5.4.Planning and scheduling

5.5.Bibliography and recommended resources