



## Course Unit: 15715 – Environmental Management

Year 2 Semester 3 ISCED Code: 712 ECTS: 4,0

Type of Course Unit: Compulsory Delivery Mode: Face-to-face Language of Instruction: Portuguese

COURSE COORDINATOR: Anabela Cândida Ramalho Durão

### HOURS OF WORK

TOTAL HOURS	Contact Hours								Hours in autonomous work
	Theory	Theory and practice	Practical and laboratory work	Field work	Seminar	Internship	Tutorial guidance	Other	
100		45							55

Prerequisites (if applicable): Not applicable

### LEARNING OUTCOMES (knowledge, skills and competence)

The learning outcomes are to acquire knowledge in the field of: mechanisms of environmental management in organizations; methodologies of integration in the global practices environmental component of organizations and application of standardized mechanisms in the field of Environmental Management Systems and Environmental Audit practices.

Understand the need for implementation of Environmental Management Systems for environmental sustainability. Acquire knowledge of voluntary environmental management

Recognize the reasons, advantages and disadvantages inherent to the implementation of environmental management systems.

### CONTENTS

- 1- Introduction to Environmental Management
  - Environmental sustainability
  - Economic activities and environmental pollution
  - Environmental Management
  - Evolution of environmental management systems
  - Reasons for the implementation of an environmental management system
- 2- ISO 14001: 2004
  - General requirements
  - Environmental politics
  - planning
  - Implementation and operation
  - Documentation
  - Checking and corrective action
  - Management review
- 3- ISO Series 14000
  - Environmental audits

Environmental performance evaluation

4- Community Regulation Eco-management and audit - EMAS

General concepts

EMAS

Register at EMAS

EMAS benefits

### **DEMONSTRATION OF THE CONTENTS COHERENCE WITH THE COURSE UNIT'S LEARNING OUTCOMES**

This course is intended that the student acquires knowledge of the environmental management mechanisms in organizations and environmental audit practices, so the syllabus were selected taking into account this objective by addressing issues related to standards, national environmental legislation, Community EMAS, contributing to the development of skills related to the importance and necessity of the implementation of environmental management systems for environmental sustainability. Meet regulatory environmental management, identify environmental aspects and assess their importance thus contributing to the continuous improvement of environmental performance of an organization.

### **TEACHING METHODOLOGIES**

Expository methods, participatory methods, group work and case studies.

### **DEMONSTRATION OF THE COHERENCE BETWEEN THE TEACHING METHODOLOGIES AND THE LEARNING OUTCOMES**

The teaching methodologies adopted: the expository approach for the fundamental concepts of Environmental Management, reflecting the requirements of an EMS to an organization according to the ISO 14001 standard and to establish the main differences between ISO 14001 and EMAS; participatory methodology with interactive exhibition with the students and the realization of group work of case studies, could achieve the main objective of this course, which is to know the mechanisms and methodologies of Environmental Management in an organization.

### **EVALUATION METHODS**

The evaluation will be carried out using the performing group in practical work and a written individual evaluation.

final score= 40%TP+60%E

Where: TP- Practical work

E- Individual Written Evaluation

### **MAIN BIBLIOGRAPHY**

Caseirão, Manuel R (2004). Auditoria Ambiental

Decisão da Comissão de 07/09/2001 relativo a orientações para a aplicação do Regulamento (CE) n.º 761/2001 de 19 de Março  
DECISÃO DA COMISSÃO nos termos do Regulamento (CE) N.º 761/2001 do Parlamento

Decreto-Lei n.º 142/2002 de 20 de Maio de 2002 - Designa as entidades nacionais responsáveis pelo Sistema Português de Ecogestão e Auditoria

Decreto-Lei n.º 169/2012 de 1 de agosto Sistema da Industria Responsável

Europeu e do Conselho - estabelece disposições relativas à utilização do logótipo EMAS nos casos excepcionais das embalagens de transporte e das embalagens terciárias.

Guide ISO/IEC 66 - General requirements for bodies operating assessment and certification/registration of environmental management systems (EMS), 1999

Legislação Nacional no domínio do Ambiente

Luiz, L; Alberton, L; Rosa, F, Pfitscher E. (2014). Inclusão de práticas ambientais nas auditorias ambientais realizadas no âmbito de uma instituição federal de Educação

