

## 68575 - The productive environment of Industrial Processes

### Información del Plan Docente

<b>Academic Year</b>	2016/17
<b>Academic center</b>	107 - Facultad de Educación
<b>Degree</b>	415 - Master's in Teacher Training for Obligatory Secondary Education, Sixth Form, Professional Training and Language, Arts and Sports Teaching 368 - University Master's in Professional Development Teaching: Industrial Processes
<b>ECTS</b>	4.0
<b>Course</b>	---
<b>Period</b>	Indeterminate
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### 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

The student, for passing this subject, should demonstrate the following results ...

1:

- 1) Proposes and documents against an organism, such as banking or official, a proposal to create a company.
- 2) Identifies, recognizes, applies and optimizes documentation management systems implemented in a productive enterprise, as well as documentation for management and control of an industrial.
- 3) Identifies operating processes taking place in a warehouse, and raises its optimization from the economically and management point of view.
- 4) Identify and analyze the types and maintenance techniques applied in a productive enterprise, and it presents an integrated model of maintenance management.
- 5) Analyze the regulations and protective measures of environment occupational hazards of an industrial enterprise.

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6) Analyzes the regulations and protective measures in the environment of an industrial company.

### 2.2.Introduction

This course aims that students acquire the concepts and skills needed to implement management processes and equipment maintenance, installations and storages; analyze the environmental, quality, safety, prevention of occupational hazards and health legislation, and to assess the importance of their implementation; develop social skills applied in the workplace.

### 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

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

1:

2.1. Theoretical classes: magisterial theoretical exhibition (1 ECTS)

Type 1 (in traditional classroom whole group):

Module 1: Entrepreneurs initiatives.

Skills and entrepreneur initiatives

- What is entrepreneur?
- Features of an entrepreneur
- Examples of projects for entrepreneurs

Opportunity of enterprise creation and its impact in the context of action

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### Module 2: Social skills applicable in the workplace

The communication within the company.

- Content and stages of the message.
- Communication objectives
- Factors influencing communication

Work motivation

- Theory Maslow
- Theory Herzberg

Leadership. Command styles.

- Types of leadership
- Basic Leadership styles

Driving / Teamwork

- Groups in organizations
- Group types
- Advantages and disadvantages of teamwork
- The team coordinator

Conflict resolution. Decision making

- Stages in conflict resolution
- Errors in conflict resolution

Decision making

- Problem analysis. Definition of the situation
- Action plan
- Troubleshooting techniques

### Module 3. Quality Management Systems

Quality concept.

Quality management systems.

Principles of ISO 9001: 2008

Requirements of ISO 9001:

- Quality management systems.
- Management responsibility.
- Resource management.
- Making product / service
- Measurement, analysis and improvement.

Difficulties and benefits of implementing a Quality Management System.

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Module 4. Documental management of the metrology laboratory.

Measurement errors. Classification addressing their causes.

Repeatability, reproducibility and stability

Measurement treatment

Measurement uncertainty

Traceability and dissemination

Management of measuring equipments

Metrological organization in Spain

Laboratory accreditation

Module 5. Production planning and management

Fabrication process. Definition and classification.

Planning systems.

Module 6. Document management of a manufacturing process.

Process sheet.

Check sheet.

Module 7. Purchasing management.

Activities with suppliers

- Shopping quality policy
- Selection of suppliers
- Quality planning
- Conformance test (qualification process)

Module 8. Warehouse management.

Definition and classification of stores

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Storage policy

Warehouse design

Warehouse organization models

Operational processes

Warehouse automation

Storage quality

Module 9. Maintenance management.

Concept and types of maintenance

Corrective maintenance

Preventive maintenance

Systematic maintenance

Conditional or preventive maintenance

Modulo 10. Risk prevention in the workplace.

Legislation on prevention of occupational hazards.

Risk factors and situations

Accident analysis (types, causes, effects, statistics, ...)

EPI's: classification and use

First aid

Emergency

Evacuation standards

Preventive measures

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Module 11: Environmental management.

Environmental protection legislation.

Waste management

Module 12: Integrated management

Standardization of integrated management systems

Differences and similarities between management systems

Model for Integration of management systems

Advantages and disadvantages of integration of management systems

2.2. Practical classes (0.5 ECTS)

Type 2 (in the classroom and in small groups)

Study and development of examples of management models of activities related to the productive environment of industrial processes developed in previous modules.

2.3. Individual work. (2 ECTS)

2.4. Active guidance and mentoring for the presentation of the work. (0.5 ECTS)

**5.4.Planning and scheduling**

**5.5.Bibliography and recommended resources**