

# EUROPASS DIPLOMA SUPPLEMENT

## TITLE OF THE DIPLOMA

*Técnico Superior en Paisajismo y Medio Rural*

## TRANSLATED TITLE OF THE DIPLOMA (EN)<sup>(1)</sup>

*Higher Technician in Landscaping and Rural Environment*

---

(1) This translation has no legal status

## DIPLOMA DESCRIPTION

**The holder of this diploma will have acquired the general competence with regard to:**

Developing projects for gardens and green areas and managing plant and agricultural production, monitoring tasks, programming and organising human and material resources, applying economic profitability criteria and in compliance with environmental regulations, regarding organic production, plant nursery production, quality control, food safety and labour risk prevention.

**Within this framework, the PROFESSIONAL MODULES and their respective LEARNING OUTCOMES acquired by the holder are listed below.**

### "Agricultural Botany"

The holder:

- Identifies plants using taxonomic techniques and methods.
- Geographically locates different vegetable species, interpreting documents on biogeographical distribution.
- Characterises cultivated plants, analysing their morphology, utilization and varieties.
- Characterises garden plants, analysing their biometric parameters and ornamental value.
- Identifies the cultural characters of forest species, analysing ecologic and morphologic factors.

### "Plant Nursery Management and Organisation"

The holder:

- Organises fruit and seed recollection processes, analysing production techniques on soil and at height.
- Organises the preparation processes for fruits, seeds and plant propagation materials, analysing the techniques and the treatments to be performed before the planting.
- Manages the process of collecting seeds and organic plants, analysing organic production techniques.
- Coordinates the planting process of plant material in nurseries to produce plants and sods, analysing the techniques used to prepare the methods for growing, sowing and propagule placement methods.
- Manages the transplanting process of different species in a nursery, analysing and applying digging and acclimatization techniques.
- Programs irrigation, organic irrigation and environmental control, analysing soil and environment conditions as well as the needs of the plants.
- Drafts a program of culture operations for plants, relating the techniques to be applied according to the culture.
- Organises plant and sod dispatching operations, describing conditioning and transport techniques.

### "Phytopathology"

The holder:

- Organises the follow-up of the plant's health status, describing plagues and diseases and following set procedures.
- Programs phytosanitary control, analysing action methods, techniques and protocols and the characteristics of the environment.
- Monitors the storage and handling of phytosanitary products, interpreting set regulations and protocols.
- Establishes protection measures for the preparation and application of phytosanitary products, identifying the risks for health and the effects on the environment.
- Organises and performs the preparation and the application of phytosanitary products, selecting techniques and means.
- Coordinates the management of dangerous chemical phytosanitary product waste, following set procedures.

- Organises and performs sanitary handling of the agrosystem, relating techniques and procedures to the environmental regulations.

### **"Agricultural Topography"**

The holder:

- Interprets plans, aerial photographs or maps, analysing contour lines, scales and topographic symbols.
- Organises data gathering on site, describing the operations to be performed, the method and the working facilities.
- Handles topographic equipment and facilities, explaining their characteristics and operation and analysing set procedures.
- Represents maps and plans, describing representation techniques and surveying measures.
- Sets out points and figures interpreting the information in the plan.

### **"Agroforestry Machinery and Installations"**

The holder:

- Organises the installation and the management of an agricultural workshop, analysing maintenance and repairing needs in the farm.
- Monitors and performs basic machining and welding operations, analysing the techniques and testing the quality of the final product.
- Controls the operation of agroforestry and gardening machinery and equipment, analysing user manuals and plans.
- Programs the operation and the maintenance of the installations, analysing their characteristics and interpreting user manuals and plans.
- Evaluates breakdowns and monitors installation, machinery and equipment repairs and servicing, analysing their extent, the cost of the intervention and the tasks performed.
- Programs and monitors the maintenance of the machinery and the equipment, analysing their technical specifications and the production objectives of the farm.
- Prepares machinery, equipment and installation purchase, substitution or discard plans, analysing technical and economic criteria and the production plan of the farm.
- Applies labour risk prevention, personal safety and environmental preservation measures, assessing working conditions and the risk factors.

### **"Culture Planning"**

The holder:

- Decides water and nutritional needs of the culture, analysing pedo-climatic and hydrological data.
- Plans cultures, alternatives or rotations, handling the information provided by pedo-climatic data, culture needs and market requirements.
- Organises the execution of culture infrastructures works, describing the tasks, the equipment and the machinery.
- Coordinates the process of soil preparation according to the culture, describing the tasks, the equipment and the machinery.
- Organises sowing, transplanting and planting tasks, describing the handling of plants and soil.
- Organises culture implementation, analysing organic production techniques.

### **"Culture Management"**

The holder:

- Programs and controls irrigation and fertilization, analysing soil characteristics and hydrological and nutrition needs of cultures.
- Organises and programs culture labour and care, analysing culture types and the objective of the production.
- Programs and monitors exploitation, harvest and recollection, analysing meteorological conditions and the optimal moment or degree of ripeness.
- Organises post-harvesting stage, describing required operations according to the type of product and its destination.
- Organises natural care, recollection and post-harvesting of organic products, analysing the authorised techniques and methods.

### **"Garden Design and Landscape Restoration"**

The holder:

- Designs indoor and outdoor gardens, analysing technical, aesthetical and representation factors.
- Organises the tasks required to build an outdoor garden, distributing the tasks to be carried out according to the planting techniques.
- Organises the tasks required to build the project of an indoor garden, distributing the tasks to be carried out according to the planting techniques.

- Coordinates the tasks to implement replanting of the natural environment and landscape restoration projects, analysing techniques and action procedures.
- Plans an organic garden, relating environmental conditions, water resources and available equipment to the plants.

#### **“Gardens and Sport Lawn Preservation”**

The holder:

- Organises and performs the maintenance and restoration tasks of the vegetable elements in a garden area, relating the gardening techniques to the preservation processes.
- Organises preservation and restoration tasks in infrastructures, equipment, furniture and non-vegetable elements at parks or garden areas, selecting techniques and gardening tools.
- Organises and controls maintenance and restoration at sports facilities, analysing methods and techniques applied in grassland species.
- Programs irrigation and fertilization operations and controls the harmful agents affecting the lawn of sports facilities, analysing pedo-climatic factors and the needs of the plant.
- Programs and organises tasks at height on trees, analysing climbing methods and describing machinery, equipment and tools.

#### **“Project on Landscaping and Rural Environment”**

The holder:

- Identifies the needs of the production sector, relating them to related projects which may fulfil them.
- Designs projects related to the competences comprised in the diploma, including and developing the constituting stages.
- Plans the implementation of the project, determining the intervention plan and the attached documentation.
- Defines the procedures for monitoring and controlling the implementation of the project, justifying the selection of the variables and tools used.

#### **“Professional Training and Guidance”**

The holder:

- Selects job opportunities, identifying the different possibilities of labour integration, and the alternatives of lifelong learning.
- Applies teamwork strategies, assessing their effectiveness and efficiency for the achievement of the company’s goals.
- Exercises rights and complies with the duties derived from labour relationships, recognising them in the different job contracts.
- Determines the protective action of the Spanish Health Service in view of the different covered eventualities, identifying the different types of assistance.
- Assesses the risks derived from his/her activity, analysing the job conditions and the risk factors present in his/her labour setting.
- Participates in the development of a risk prevention plan for a small enterprise, identifying the responsibilities of all the agents involved.
- Applies protection and prevention measures, analysing the risk situations in the labour setting of the Higher Technician in Landscaping and Rural Environment.

#### **“Business and Entrepreneurial Initiative”**

The holder:

- Recognises the skills related to entrepreneurial initiative, analysing the requirements derived from job positions and business activities.
- Defines the opportunity of creating a small enterprise, assessing the impact on the sphere of action and incorporating ethic values.
- Carries out the activities for the setting-up and implementation of a company, choosing its legal structure and identifying the associated legal obligations.
- Carries out basic administrative and financial management activities of an SME, identifying the main accounting and tax obligations and filling in documentation.

#### **“On the Job Training”**

The holder:

- Identifies the company’s structure and organization relating it to the production and the marketing of the products obtained.
- Applies labour and ethic habits in his/her professional activity according to the characteristics of the job position and the procedures established by the company.
- Organises and performs the tasks of implementation, preservation and recovering of gardens and sports fields, as well as those related to restoring the natural environment, analysing their characteristics and applying gardening methods and techniques.

- Organises production processes of plants and sods, applying set techniques according to the product to be obtained.
- Programs and monitors the operation and the maintenance of installations, machinery and equipment, analysing their technical specifications and considering the company's production plan.
- Plans cultures and organises the tasks related to soil preparation, sowing, transplanting and planting, analysing pedological and climatic data, the culture needs and the market demands.
- Programs and organises culture care and agricultural product exploitation, harvest and post-harvest, considering the type of culture, the meteorological conditions, the product to be obtained and its commercial destination.

### **RANGE OF OCCUPATIONS ACCESIBLE TO THE HOLDER OF THE DIPLOMA**

The Higher Technician in Landscaping and Rural Environment works as an employee or self-employed professional in the management area of large, medium and small companies, either public or private, dedicated to park and garden installation, restoration and maintenance, landscape restoration, conventional or organic agriculture production and seed and plant production at nurseries. Besides he/she is qualified to organise, control and perform pesticide treatments, according to the activity under current regulations.

The most relevant occupations or jobs are the following:

- Gardening technician.
- Design garden areas when no project is required.
- Person in charge of the installation of parks, gardens, and urban and suburb recreational areas.
- Person in charge of the maintenance, preservation and restoration of parks and gardens (urban and suburb recreational areas and natural environment).
- Employee at gardening and landscape restoration companies.
- Person in charge of gardening and landscape restoration works.
- Person in charge of pruning and tree surgery.
- Agriculture manager or foreman.
- Manager of conventional and organic agriculture production, as an employee or self-employed professional.
- Person responsible for agriculture warehouse.
- Person responsible for soil treatment equipment.
- Person in charge of or agriculture foreman at orchards, nurseries and gardens in general.
- Person in charge of nurseries in general, both conventional and organic.
- Person in charge of plant propagation at nursery.
- Person in charge of plant culture at nursery.
- Person in charge of seed and fruit recollection at a height.
- Person in charge of seed and sod production.
- Person in charge of the warehouse plant, sod and/or seed expedition.

### **AWARD, ACCREDITATION AND LEVEL OF THE DIPLOMA**

**Name of the body awarding the diploma on behalf of the King of Spain:** Spanish Ministry of Education or the different Autonomous Communities according to their areas of competence. The title has academic and professional validity throughout Spain.

**Official duration of the education/ training leading to the diploma:** 2000 hours.

**Level of the diploma (national or international)**

- NATIONAL: Non-University Higher Education
- INTERNATIONAL:
  - Level 5b of the International Standard Classification of Education (ISCED5b)
  - Level 5 of the European Qualifications Framework (EQF5).

**Entry requirements:** Holding the Certificate in Post-Compulsory Secondary Education (Bachillerato) or holding the corresponding access test.

**Access to next level of education/training:** This diploma provides access to University studies

**Legal basis:** Basic regulation according to which the diploma is established:

- Minimum teaching requirements established by the State: Royal Decree 259/2011, of 28 February, according to which the diploma of Higher Technician in Landscaping and Rural Environment and its corresponding minimum teaching requirements are established.

**Explanatory note:** This document is designed to provide additional information about the specified diploma and does not have any legal status in itself.

### **COURSE STRUCTURE OF THE OFFICIALLY RECOGNISED DIPLOMA**

<b>PROFESSIONAL MODULES IN THE DIPLOMA ROYAL DECREE</b>	<b>CREDITS ECTS</b>
<b>Agricultural Botany</b>	6
<b>Plant Nursery Management and Organisation</b>	13
<b>Phytopathology</b>	7
<b>Agricultural Topography</b>	6
<b>Agroforestry Machinery and Installations</b>	12
<b>Culture Planning</b>	11
<b>Culture Management</b>	13
<b>Garden Design and Landscape Restoration</b>	8
<b>Gardens and Sport Lawn Preservation</b>	8
<b>Project on Landscaping and Rural Environment</b>	5
<b>Professional Training and Guidance</b>	5
<b>Business and Entrepreneurial Initiative</b>	4
<b>On the Job Training</b>	22
	TOTAL CREDITS
	<b>120</b>
OFFICIAL DURATION (HOURS)	<b>2000</b>

\* The minimum teaching requirements shown in the table above comprise 55% official credit points valid throughout Spain. The remaining 45% corresponds to each Autonomous Community and can be described in the **Annex I** of this supplement.

## INFORMATION ON THE EDUCATION SYSTEM

