

EUROPASS CERTIFICATE SUPPLEMENT

TITLE OF THE DIPLOMA (ES)

Técnico en Producción Agroecológica

TRANSLATED TITLE OF THE DIPLOMA (EN)⁽¹⁾

Technician in Agro-ecological Production

(1) This translation has no legal status.

DIPLOMA DESCRIPTION

The holder of this diploma will have acquired the General Competence with regard to:

Obtaining organic farming products with agricultural and farming techniques and improving environmental biodiversity and stability, as well as soil fertility, in conditions of quality, applying rules on organic production, animal welfare, labour risk prevention and environmental protection.

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

“Agricultural Fundamentals”

The holder:

- Characterises climate and its effect on crops analysing available information.
- Identifies types of soils and their characteristics interpreting the obtained data through analyses.
- Carries out the basic representation of the topographic characteristics of the land justifying the techniques used.
- Determines water needs of species analysing the relationship water-soil-plant.
- Recognises the characteristics of ecosystems in the nearest environment analysing biotic interrelations.
- Identifies vegetable species following taxonomic criteria.
- Characterises fertilisers recognising their use.

“Zootechnics Fundamentals”

The holder:

- Identifies mammals and birds breeds of interest within the field of stockbreeding, describing their morphological external characteristics and production suitability.
- Determines livestock food and nutrition needs, calculating the necessary portions to cover them according to their type and characteristics.
- Describes animal reproduction, considering their biological fundamentals and associated techniques.
- Classifies the most common pathologies that affect animals and their influence on them, analysing the concept of disease and its causes.
- Characterises cattle housing, relating the same with the production stage and target species.
- Identifies the different animal products, describing their characteristics and physiological basis of production.

“Organic Harvesting”

The holder:

- Determines the process of transformation from conventional production farms to organic ones, identifying the parameters that characterise the agro-ecosystem.
- Establishes crop rotation, crop association and polyculture in organic farms, relating them with biodiversity and associated yield.
- Prepares soil and its substrata for organic cropping, interpreting and applying techniques aimed at maintaining and improving soil fertility.
- Sows and plants organic vegetable material justifying the use of local phylogenetic resources.
- Complies with the rules on labour risk prevention and environmental protection, identifying associated risks and measures and equipment to prevent them.

“Workshop and Traction Equipment”

The holder:

- Organises the farm workshop justifying the placement of tools and equipment.
- Drives tractors and traction equipment interpreting their functionality and use.
- Carries out the basic maintenance of tractors and traction equipment interpreting protocols and maintenance records.
- Performs welding and basic machining operations justifying materials and methods used.

- Complies with the rules on labour risk prevention and environmental protection, identifying associated risks and measures and equipment to prevent them.

“Agricultural Infrastructures and Facilities”

The holder:

- Installs and maintains agricultural infrastructures describing their characteristics and fitting techniques.
- Fits irrigation installations identifying their elements and fitting techniques.
- Installs protection and forcing systems relating them with environmental and crop factors.
- Maintains agricultural installations interpreting the established protocols for their preservation and hygiene.
- Complies with the rules on labour risk prevention and environmental protection, identifying associated risks and measures and equipment to prevent them.

“Vegetable Safety Principles”

The holder:

- Characterises undesirable spontaneous vegetation describing species present in the area.
- Determines the damaging and beneficial fauna for vegetables, relating biological characteristics with the effects on plants.
- Determines beneficial agents and those causing diseases and damages that affect plants, describing their characteristics.
- Determines the sanitary state of plants, assessing the information obtained in accordance with the established protocol.
- Characterises protection methods for plants assessing their effects on their sanitary state.

“Organic Vegetable Production”

The holder:

- Performs soil treatment operations describing the fundamentals of its stability and water optimisation.
- Prepares compost describing the transformation processes of the organic waste from the farm.
- Provides crops with the necessary nutrients relating their effects with the maintenance or increase of soil fertility.
- Manages the irrigation system relating its effects with soil erosion, microbial activity and water needs of crops.
- Carries out the cultural operations of different crops and seedbeds analysing agro-ecosystem sustainability and welfare.
- Grows organic vegetable products relating operations with organic production legislation.
- Stores organic vegetable products justifying the arrangement, preservation and transport techniques.
- Complies with the rules on labour risk prevention and environmental protection, identifying associated risks and measures and equipment to prevent them.

“Organic Livestock Production”

The holder:

- Treats animals for them to adapt to the organic production system, interpreting the established rules and protocols.
- Performs livestock feeding operations, interpreting the rules on organic production.
- Manages cattle grazing, assessing environmental sustainability and ecosystem improvement.
- Carries out management operations of animal reproduction relating them with the comprehensive process of organic production.
- Performs operations of organic production of animals and their products, interpreting specific legislation.
- Monitors animal welfare, justifying sanitary treatments and protocols compatible with legislation on organic livestock production.
- Carries out organic beehive handling operations, relating them with production and the improvement of pollination.
- Complies with the rules on labour risk prevention and environmental protection, identifying associated risks and measures and equipment to prevent them.

“Sanitary Management of Agro-ecosystems”

The holder:

- Determines rotations, associations and polyculture assessing the agro-ecosystem equilibrium and crop welfare.
- Installs organic infrastructures relating their effects on the agro-ecosystem equilibrium.
- Treats spontaneous vegetation assessing its influence on the agro-ecosystem equilibrium and its maintenance with crops.
- Applies physical and biological methods in order to maintain the agro-ecosystem sanitary equilibrium, analysing the rules on organic production.
- Carries out plant-protection treatments in accordance with the principles of organic production, justifying the means and machinery to be used.
- Complies with the rules on labour risk prevention and environmental protection, identifying associated risks and measures and equipment to prevent them.

“Agro-ecological Products Marketing”

The holder:

- Characterises the way of marketing agro-ecological products analysing marketing channels.
- Selects techniques for the promotion and selling of agro-ecological products analysing the existing variants.
- Conditions products on sale justifying techniques and procedures used.
- Calculates the price of agro-ecological products analysing the process of production and marketing.
- Complies with the rules on labour risk prevention and environmental protection, identifying associated risks and measures and equipment to prevent them.

“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 on 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 eventualities covered, identifying the different types of assistance.
- Assesses risks derived from his/her activity, analysing job conditions and risk factors present in his/her labour setting.
- Participates in the development of a risk prevention plan in a small enterprise, identifying the responsibilities of all agents involved.
- Applies protection and prevention measures, analysing risk situations in the labour setting of the Technician in Agro-ecological Production.

“Business and Entrepreneurial Initiative”

The holder:

- Recognises 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 performance setting and incorporating ethic values.
- Carries out the activities for the setting-up and implementation of a company, choosing the 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 the same to service provision.
- 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.
- Performs of organic harvesting operations, establishing rotations, associations and polyculture and using farming equipment and machinery in accordance with the established instructions.
- Performs harvesting operations in organically sown fields and plantations applying production and organic certification criteria.
- Carries out operations for the sanitary management of the agro-ecosystem identifying and using organic agriculture techniques, methods and equipment.
- Manages organic livestock applying the pre-established feeding, production, reproduction and animal welfare procedures and techniques.
- Fits and maintains forcing systems, farming infrastructures and facilities, interpreting technical instructions and documentation.

RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE DIPLOMA

The Technician in Agro-ecological Production works in either public or private companies, as an employee or self-employed, addressed to organic cropping or stockbreeding. It is classified under the farming sector within the following production activities: fruit farming; organic horticultural and herb cropping; organic stockbreeding; companies producing plants for ecological gardening; institutions researching and experimenting on crops and organic livestock production; companies working on organic agriculture and stockbreeding; school plant nurseries and gardens; companies certifying organic products; school farms and nature's classrooms.

The most relevant occupations or jobs are the following:

- Qualified employee working on organic crops and stockbreeding

- Qualified self-employed working on organic crops and stockbreeding
- Organic farmer
- Organic cattle breeder
- Organic poultry farmer
- Organic beekeeper
- Organic milk producer
- Organic eggs producer
- Organic nurseryperson
- Agricultural and stockbreeding machinery operator

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: Post-Compulsory Secondary Education
- INTERNATIONAL:
 - Level 3 of the International Standard Classification of Education (ISCED3).
 - Level _____ of the European Qualifications Framework (EQF__).

Entry requirements: Holding the Certificate in Compulsory Secondary Education or holding the corresponding access test.

Access to next level of education/training: This diploma may provide access to Higher Technical Cycles provided that an entrance exam is passed.

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

- Minimum teaching requirements established by the State: Royal Decree 1633/2009, of 30 October, according to which the diploma of Technician in Agro-ecological Production 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. An Annex I may be added and will be filled in by the corresponding Autonomous Community.

INFORMATION ON THE EDUCATION SYSTEM

