

EUROPASS CERTIFICATE SUPPLEMENT

TITLE OF THE DIPLOMA (ES)

Técnico en Aprovechamiento y Conservación del Medio Natural

TRANSLATED TITLE OF THE DIPLOMA (EN)⁽¹⁾

Technician in Utilization and Conservation of the Natural Environment

(1) This translation has no legal status.

DIPLOMA DESCRIPTION

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

Carrying out those operations related to reforestation, forest-hydrological restoration or management, and forest utilization, as well as controlling and monitoring the natural environment, operating and maintaining the machinery, and the forest facilities and applying environmental and labour risk prevention regulations.

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

“Agronomic Basis”

The holder:

- Characterizes the climate and its impact on crops, analyzing the information available.
- Identifies the soil types and their features, interpreting the data obtained by means of analysis.
- Carries out the basic representation of the topographical features of the terrain, justifying the techniques used.
- Identifies the water needs of the species, analyzing the link water-soil-plant.
- Identifies the features of the closest surrounding ecosystems, analyzing the biotic interrelations.
- Identifies the species of plants, in accordance with taxonomic criteria.
- Characterizes the fertilisers to be used, recognising their use.

“Plant Health Basis”

The holder:

- Characterizes unwanted spontaneous vegetation, describing the species present in the area.
- Defines the fauna benefitting and harming vegetables, relating the biological features to the effects on plants.
- Defines the benefitting agents and those causing diseases and damages to the plants, describing their features.
- Defines the plant’s health status, evaluating the information obtained, according to the protocol established,
- Characterizes the protection methods for plants, assessing their effects on the plants’ health status.

“Phytosanitary Control”

The holder:

- Determines the phytosanitary chemical products that must be applied, analyzing their technical features.
- Stores and handles chemical phytosanitary products, interpreting the standards and protocols established.
- Applies physical, biological and/or biotechnical methods, describing and handling the prescribed techniques.
- Prepares phytosanitary chemical products, following the established protocol.
- Applies phytosanitary chemical products, selecting the machinery and the equipment.
- Identifies the risks deriving from the use of phytosanitary chemicals, depending on their composition and their mechanisms of action, analyzing their adverse effects on the people and the environment.
- Complies with the rules on occupational risk prevention and environmental protection, identifying the associated risks and the measures and equipment to prevent them.

“Reforestation and Forestry Treatments”

The holder:

- Carries out works of reforestation, describing the methods and the implantation techniques.
- Develops works for forestry-hydrological correction, interpreting and applying improvement and building techniques.
- Applies improvement techniques for areas of forest, relating the silvicultural systems to the species.
- Opens and carries out the maintenance of forest roads, describing the stages of the executing works.
- Carries out displacements and high-rise works, identifying the systems, the climbing methods and describing the machines and the tools.

“Utilization of the Natural Environment”

The holder:

- Chops down and processes trees with a mechanical saw, relating the conditions of the natural environment to the factors involved.
- Chops down and processes trees with a forestry harvester, describing its functioning and the conditions of the natural environment.
- Strips the bark from trees, characterizing the techniques and the processes and the factors involved.
- Gathers other forest products, relating the techniques and the processes to the factors involved.
- Complies with the rules on occupational risk prevention and environmental protection, identifying the associated risks and the measures and the equipment to prevent them.

“Conservation of Hunting and Fish Species”

The holder:

- Captures and transfers hunting animal species, relating the techniques and means to the features of the species and their environment.
- Releases hunting animal species for restocking, relating the methods to the purpose concerned.
- Monitors the animal restocking, analyzing the established protocols.
- Carries out restocking and maintenance works in mainland fish populations, relating the techniques and methods to the species and the place to put and take.
- Applies conservation techniques and ditch improvement, interpreting and applying the established techniques.
- Controls, gives advice and informs for an ordered utilization of hunting and fishing resources, analyzing the actions to carry out.

“Forest Plant Production in Tree Nurseries”

The holder:

- Gathers fruits, seeds and propagating plant material, relating the collection techniques to the species.
- Prepares the terrain and the seedbed, relating the techniques to the machinery and the equipment.
- Seeds and implants propagating plant material, describing the techniques.
- Cultivates forest plants, relating the techniques and equipment to the species.
- Acclimatizes forest species, describing the operations carried out in the tree nursery and in the forest.

“Forest Fires Prevention”

The holder:

- Carries out preventive works to fight forest fires, relating the technical factors and the means to the actuations to carry out
- Supervises and detects forest fires, characterizing the techniques and the means.
- Takes part in the operations to control forest fires, relating the equipment and the means to the features of the fire.
- Checks the operating status and the location of tools, means and equipment, interpreting the procedures and the instruction manual.
- Complies with the rules on occupational risk prevention and environmental protection, identifying the associated risks and the measures and the equipment to prevent them.

“Machinery and Forest Facilities”

The holder:

- Organizes the tools and the equipment of the forest workshop, identifying their function.
- Carries out operations with forest factors and other traction equipment under the supervision of a superior, describing the operating mechanisms.
- Carries out first-level maintenance in a forestry tractor and in traction systems, interpreting the protocols and in maintenance chart
- Installs and maintains protection and forced systems for forestry species, interpreting the manuals and assembly and maintenance instructions.
- Carries out installation and maintenance works in the infrastructures of hunting and fish spaces, relating the materials, the equipment and the tools to the associated techniques.
- Maintains the chainsaw, the string trimmer and the forest tools identifying their parts and interpreting the manuals.
- Complies with the rules on occupational risk prevention and environmental protection, identifying the associated risks and the measures and the equipment to prevent them.

“Public Use in Natural Areas”

The holder:

- Controls public use activities in natural areas, describing methods and techniques.
- Advises the people visiting natural areas, relating the initiatives to carry out to the situations.
- Executes works to conserve flora and fauna species in natural areas, relating the techniques and the methods to the features of the species.

- Supervises the natural environment, relating the technical means to the methods and procedures.
- Builds and maintains infrastructures and equipment for the public use of the natural environment, interpreting the guidelines established.

“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 covered eventualities, 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 *and* Conservation of the Natural Environment.

“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 structure and the organization of the company, relating both to the production and marketing of the products obtained.
- Applies ethic and labour habits in the development of his/her professional activity, according to the features of the position and to the procedures established by the company.
- Executes reforestation works and forestry treatments, applying implantation, improvement and building techniques, according to the instructions laid-down.
- Carries out production operation for forest plants, identifying the techniques and using the resources and the facilities available.
- Applies plant protection techniques, using methods and equipment according to the protocols laid-down.
- Installs and maintains the infrastructures in both fishing and hunting spaces, relating the materials, equipment, machines and tools to the associated techniques.
- Keeps in good order the mechanical saw, the string trimmer and the forest tools, identifying their parts and interpreting the manuals.
- Complies with the rules on labour risk prevention and environmental protection, identifying the associated risks and the measures and equipment to prevent them.

RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE DIPLOMA

The Technician in Utilization and Conservation of the Natural Environment works in large, medium and small company, public or private enterprises, devoted to reforestation, restoration and hydrological and forest planning as well as forest utilization and control and monitoring of the natural environment.

The Technician in Utilization and Conservation of the Natural Environment may work either as self-employed or for others, collaborating with working groups, made up by other professionals either of the same or of a lower qualification level, organizationally placed under an intermediate manager. In some cases, in small companies, he or she may have workers under his/her responsibility, but with the supervision of the production responsible.

The most relevant occupations or jobs are the following:

- Worker Qualified in Forest Activities
- Specialised Worker in Wood, Cork and Timber
- Operator of Forest Processor

- Tractor Driver
- Chainsaw Operator, Wood Cutter
- Cork Operator
- Worker Specialised in Working at Elevated Levels on Trees
- Worker Specialised in Reforestation Companies
- Worker Specialised in Companies Devoted to Forestry-Hidrological Correction Works
- Self-employed Worker Specialised in reforestation Work and Forestry Treatments
- Worker Specialised in Companies Devoted to the Construction and Maintenance of Roads
- Self-employed Worker Specialised in Reforestation Works and Silviculture Treatments
- Tree Nursery Operator
- Tree Nursery Worker
- Self-employed Qualified Worker in Crops, Nurseries and Gardens
- Employed Qualified Worker in Crops, Nurseries and Gardens
- Worker Qualified in Spread of Plants in Nurseries
- Worker Qualified in Cultivation of Plants in Nurseries
- Worker Specialised in Seeds and Fruits Collection at Heights
- Worker Qualified for Seed Production
- Applies Phytosanitary Products
- Grafter
- Worker Specialised in Inventory, Tracking and in the Adequacy of Natural Habitat as well as Continental Fish and Hunting Species
- Worker Specialised in restocking Hunting, Fish and Astacicola Species
- Employed or Self-employed Worker Qualified for Forest and Similar Activities
- Assistant for the Legal Control of Invasive Species or Predators
- Guide for Hunting and Fishing Tourisms Activities

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 (ISCED 3).
 - Level 4A of the European Qualifications Framework (EQF4).

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 1071/2012 of 12 July according to which the diploma of Technician in Utilization and Conservation of the Natural 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. An Annex I may be added and will be filled in by the corresponding Autonomous Community

INFORMATION ABOUT THE EDUCATION SYSTEM

