

EUROPASS SUPPLEMENT TO THE SPECIALIST DIPLOMA

TITLE OF THE SPECIALIST DEGREE

Specialist in installation and maintenance of systems connected to the Internet (IoT)

DESCRIPTION OF THE SPECIALIST DEGREE

The holder has acquired the General Competence related to:

Installation, commissioning and maintenance of devices and systems connected to the Internet, IoT, ensuring their functionality and connectivity, applying the current rules and regulations, quality protocols, privacy, digital security, occupational hazards, and respect for the environment.

Within this framework, each PROFESSIONAL MODULE includes the following LEARNING OUTCOMES acquired by the holder.

"Installation of connected devices and systems, IoT".

The titleholder:

- Characterizes the systems connected to the Internet and the elements that compose them, analyzing their impact on the productive sectors.
- Obtains information from technical documentation, plans and diagrams, among others, verifying its adequacy to the IoT project.
- Determines the human and material resources to implement an IoT project according to the logistics plan and technical documentation.
- Configures IoT system devices according to the requirements indicated in the technical documentation.
- Installs devices and systems connected to the Internet, integrating elements, installations and equipment for their commissioning.
- Commissions IoT systems or areas thereof according to the requirements of the installation and verifying their operation and performance.
- Applies occupational risk prevention standards in IoT systems, identifying the occupational risks associated with installation, assembly and commissioning and the measures and equipment to prevent them.

"Maintenance of connected devices and systems, IoT".

The titleholder:

- Performs predictive maintenance on internet **connected** systems and devices using software tools and electronic instrumentation.
- Performs preventive maintenance of communications systems in accordance with the plans for maintenance and manufacturers' instructions.
- Performs preventive maintenance operations of connected (IoT) devices following the established maintenance plan.
- Performs corrective maintenance on connected systems and equipment (IoT) relating the detected malfunctions with the causes that produce them.
- Applies occupational risk prevention and environmental protection standards, identifying occupational risks associated with predictive, preventive and corrective maintenance of connected systems and equipment.

JOBS THAT CAN BE PERFORMED WITH THIS SPECIALIST DEGREE

The specialist in Installation and maintenance of internet connected systems (IoT) The most relevant occupations and jobs are as follows:

- Network technicians.
- Installers of electronic equipment and systems.
- Installers and repairers of connected systems and devices.
- Information and communications technology installers and repairers.
- Installer and repairer of IoT devices.
- Connected systems maintainer.
- IoT Technician.

ISSUANCE, ACCREDITATION AND DEGREE LEVEL

Body that issues the diploma on behalf of the King: Ministry of Education and Vocational Training or the autonomous communities within the scope of their own competences. The title has academic and professional effects with validity throughout the State.

Official duration of the degree: 180 hours.

Degree level (national or international):

- NATIONAL: Post-compulsory secondary education.
- INTERNATIONAL:
 - Level P-3.5.4 of the International Standard Classification of Education (ISCED P-3.5.4).
 - Level 4C of the European Qualifications Framework (EQF 4C).

Access requirements:

To access the IoT specialization course it is necessary to be in possession of one of the following degrees:

- a) Degree of Technician in Microcomputer Systems and Networks, established in Royal Decree 1691/2007, of December 14, which establishes the title of Technician in Microcomputer Systems and Networks and sets its minimum teaching requirements.
- b) Degree of Technician in Electrical and Automatic Installations, established in Royal Decree 177/2008, of February 8, which establishes the title of Technician in Electrical and Automatic Installations and sets its minimum teaching requirements.
- c) Degree of Chemical Plant Technician, established in Royal Decree 178/2008, of February 8, 2008, which establishes the title of Chemical Plant Technician and sets its minimum teaching requirements.
- d) Degree of Technician in Telecommunications Installations, established in Royal Decree 1632/2009, of October 30, which establishes the title of Technician in Telecommunications Installations and sets its minimum teaching requirements.
- e) Degree of Technician in Agroecological Production, established in Royal Decree 1633/2009, of October 30, which establishes the title of Technician in Agroecological Production and sets its minimum teaching requirements.
- f) Degree of Technician in Agricultural Production, established in Royal Decree 1634/2009, of October 30, 2009, which establishes the degree of Technician in Agricultural Production and sets its minimum teaching requirements.
- g) Degree of Technician in Gardening and Floristry, established in Royal Decree 1129/2010, of September 10, which establishes the degree of Technician in Gardening and Floristry and sets its minimum teachings.
- h) Degree of Technician in Heat Production Installations, established in Royal Decree 1792/2010, of December 30, which establishes the degree of Technician in Heat Production Installations and sets its minimum teaching standards.
- i) Degree of Technician in Refrigeration and Air Conditioning Installations, established in Royal Decree 1793/2010, of December 30, which establishes the degree of Technician in Refrigeration and Air Conditioning Installations and sets its minimum teaching requirements.
- j) Degree of Electromechanical Maintenance Technician, established in Royal Decree 1589/2011, of November 4, which establishes the degree of Electromechanical Maintenance Technician and sets its minimum teaching standards.
- k) Degree of Technician in water treatment networks and stations, established in Royal Decree 114/2017, of February 17, which establishes the degree of Technician in water treatment networks and stations and sets the basic aspects of the curriculum.
- l) Degree of Technician in Assembly of structures and installation of aeronautical systems, established in the Royal Decree of 74/2018, of February 19, establishing the title of Technician in Assembly of structures and installation of aeronautical systems and setting the basic aspects of the curriculum.

Access to the next level of education or training: They may access Higher Level Training Cycles by passing an entrance exam.

Legal Basis. Regulations establishing title:

- Minimum education established by the State: Royal Decree 206/2022, of March 22, establishing the title of specialist in Installation and maintenance of systems connected to the Internet (IoT) and setting the corresponding minimum education.

Explanatory note: This document is intended as additional information to the title in question, but has no legal validity whatsoever. It may be accompanied by an Annex I to be completed by the corresponding Autonomous Community.

INFORMATION ABOUT THE EDUCATION SYSTEM

