

1. Title of the certificate ¹

**Δίπλωμα Επαγγελματικής Ειδικότητας Εκπαίδευσης και Κατάρτισης Επιπέδου 5 Ειδικότητα Ι.Ε.Κ.:
ΤΕΧΝΙΚΟΣ ΑΥΤΟΜΑΤΙΣΜΩΝ**

2. Translated title of the certificate ²

**Vocational Training Diploma Initial Vocational Training (I.E.K.) Level 5 Specialty of I.E.K:
AUTOMATION TECHNICIAN**

3. Profile of skills and competences

LEARNING OUTCOMES (KNOWLEDGE, SKILLS, COMPETENCES). A typical holder of the certificate is able to:

KNOWLEDGE

- Understand the basic concepts of his/her profession in English.
- State software used to support his/her work.
- Interpret a technical drawing (mechanical and electrical) or a sketch, along with the diagrams for the operation and work phases.
- Describe the operation of tools (manual and power tools).
- Present clearly instruments of technical measurements (multimeters, wattmeters, etc.).
- Identify the parts and understands the operation and structure of each automated control system.
- Present with the use of logical truth tables the input-output relation of logical operators.
- Explain the operation of various servomotors, as well as the basic tests and regulations of their operations, and the testing instruments thereof.
- Describe the parts, the operating and construction specifications of a PLC, along with the organisation of a hierarchically structured control system that uses a logical controller, microcomputers and microcontrollers.
- Clearly describe the basic types of loops (open and closed) and identify the parts and significance thereof.
- Correlate the basic laws of electricity, the specifications of electrical materials and the various applicable legislation, dealing with the circuits of direct and alternating current (single and three-phased).
- Describe the health and safety regulations governing his/her work.

SKILLS

- Extract results from simple calculations and conversions.
- Program modern microcontrollers for simple automation applications.
- Assemble circuits of direct and alternating current (single and three-phased).
- Locate malfunctions in an automation installation, and also in its specific components, restoring and resolving the technical problems arising during his/her work.
- Follow a maintenance programme, while performing the necessary works and checking the result.
- Identify risks inherent to each stage of works and promptly take all necessary health and safety measures.
- Select the suitable tools and instruments for each task, using them properly and with safety.
- Give first aid in the event of minor accidents, using the fire-fighting and fire protection measures.
- Calculate the cost of materials and work required to complete a phase or the entire task.
- Handle his/her electronic correspondence and use an office suite for simple applications (issuing of tenders and reports, data processing, clientele, etc.).
- Organise his/her work site, keeping it orderly and clean during work, and handle any wastes created.

COMPETENCES

- Work by combining the above knowledge and skills in different environments, through a dependent-employment or freelancing relation, as an employee of a small or large business or autonomously, taking the initiative and adjusting his/her behaviour to the various conditions.
- Act both under the instructions of an engineer and autonomously, within the framework of responsibility that applies to him/her from the applicable law.
- Collaborate without problems with colleagues, either accepting or executing instructions.
- Assess the conditions during work and select the best possible solutions.

¹ In the original language. | ² If applicable. This translation has no legal status. | ³ If applicable.

4. Range of occupations accessible to the holder of the certificate ³

The holder of this diploma can be occupied in the production or maintenance of automated installations or systems, in big or small industries and companies, in the public or private sector.

The Vocational Training Diploma is recognised as a qualification for appointment in the public sector falling in the category S.E. (Secondary Education) according to the Presidential Decree no.50/2001 (Greek Official Gazette 39/Vol.A/5-3-2001).

5. Official basis of the certificate

Body awarding the certificate

E.O.P.P.E.P.
(National Organisation for the Certification of Qualifications and Vocational Guidance)
Ethnikis Antistaseos 41 Avenue, 142 34 N. Ionia
<https://www.eoppep.gr/>

Authority providing accreditation / recognition of the certificate

E.O.P.P.E.P.
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Level of the certificate (national or European) ¹

Level 5 National and European Qualifications Framework

Grading scale / Pass requirements

a) acquisition of the Vocational Training Certificate (V.E.K.) after successful completion of study at the Vocational Training Institute (I.E.K.)
b) acquisition of the Vocational Training Diploma after:
1. success in the theoretical part of Initial Vocational Training certification examinations (Grading scale = 1-20, Pass = 10) and
2. success in the practical part of the Initial Vocational Training certification examinations (Pass/Fail)

Access to next level of education / training ¹

Yes

International agreements on recognition of qualifications¹

No

Legal basis

Law 2009/1992 on the National System of Vocational Education and Training
Law 4186/2013 on the Restructure of Secondary Education
Law 4763/2020 on National System of Vocational Education, Training and Lifelong Learning

6. Officially recognised ways of acquiring the certificate

Total duration of the education / training leading to the certificate
Success in the the Initial Vocational Training certification examinations
4 semesters (until law 4186/2013) / 5 semesters (after law 4186/2013)

7. Additional information

Entry requirements ¹

Certificate of Upper Secondary School. Qualification of Level 4 (NQF/EQF) // Certificate Vocational Training School (SEK) – Qualification of Level 3 (NQF/EQF)
Following the voting of L. 4763/2020, only by an Upper Secondary Education certificate or an equivalent title of studies (Qualification of Level 4 NQF/EQF)

Indicative subjects taught:

Automated Installations, Industrial Electronics, Industrial Information Technology, Mechanical Engineering, Electrical Engineering, Measurements - Sensors, Automatic Control Systems, The Profession of the Automations Technician, Communication Technique - Business Dexterity, English, Computing.

More information

National Qualifications Framework : <https://nqf.gov.gr/> and <https://proson.eoppep.gr/en>

National Europass Centre: **EL/NEC - E.O.P.P.E.P.** National Organisation for the Certification of Qualifications and Vocational Guidance, Ethnikis Antistaseos 41 Avenue, 142 34 N. Ionia, Greece. T.0030 2102709000 europass@eoppep.gr
<http://europass.eoppep.gr> www.eoppep.gr

¹ If applicable.