

1. Title of the certificate ¹

**Δίπλωμα Επαγγελματικής Ειδικότητας Εκπαίδευσης και Κατάρτισης Επιπέδου 5. Ειδικότητα Ι.Ε.Κ.:
ΤΕΧΝΙΚΟΣ ΑΥΤΟΜΑΤΙΣΜΩΝ Ν. 4186/2013**

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 N. 4186/2013**

3. Profile of skills and competences

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

KNOWLEDGE

- Interpret a technical (both mechanical and electrical) drawing, and draw an installation in a sketch.
- Identify the parts and the operation of electrical circuits (power supply and control, signalling, illumination, safety, control, operation, and indications circuits), automation systems and panels.
- Correlate the basic laws of electricity, the specifications of electrical materials, and the various applicable legislation, with regard to circuits of direct and alternating current (single and three-phased).
- Explain the operation of various servomotors, and the basic inspections and operating settings of them and their control instruments.
- 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 their parts and significance.

SKILLS

- Use instruments for technical measurements (multimeters, clamp meters, wattmeters, callipers, micrometers, etc.) and digital technology devices (programmable & non-programmable) for the operation of the facilities as well as for inspections and repairs.
- Detect malfunctions and restore parts.
- Make the necessary connections between the panels and the rest of the electrical installation.
- Follow a maintenance programme, by performing any necessary works and checking the result.
- Programme modern microcontrollers for simple automation applications.
- Assemble circuits of direct and alternating current (single and three-phased).
- Locate malfunctions in automation installations (traditional and/or programmable), and in their specific components, restore and resolve any technical problems arising during their work.

COMPETENCES

- Understand structured programming for writing programmes to be imported into PLCs.
- Diligently prepare a study for an automation system.
- Works independently or within a team.

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

The holder of this diploma can be employed in undertakings engaged with the manufacture of mechanical or electrical - electronic equipment for any kind of elevators, as well as with the procurement, installation, and/or maintenance thereof.

The Vocational Training Diploma is recognised as a qualification for appointment in the public sector according to the Presidential Decree no. 50/2001 (Greek Official Gazette 39/Vol. A/5-3-2001), as currently in force.

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

5. Official basis of the certificate

Body awarding the certificate	Authority providing accreditation / recognition of the certificate
E.O.P.P.E.P. (National Organisation for the Certification of Qualifications and Vocational Guidance) 41 Ethnikis Antistaseos Avenue, 142 34 N. Ionia https://www.eoppep.gr/	E.O.P.P.E.P. (National Organisation for the Certification of Qualifications and Vocational Guidance) 41 Ethnikis Antistaseos Avenue, 142 34 N. Ionia https://www.eoppep.gr/
Level of the certificate (national or European) ¹	Grading scale / Pass requirements
Level 5 National and European Qualifications Framework	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	International agreements on recognition of qualifications ¹
Yes	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 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, Analogue electronics, Digital electronics, Industrial Electronics, Industrial Information Technology, Mechanical Engineering, Electrical Engineering, Measurements - Sensors, Design, Automatic Control Systems, The Profession of the Automations Technician, Computer programming, Professional practice.

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.