

1. Title of the certificate ¹

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

2. Translated title of the certificate ²

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

3. Profile of skills and competences

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

KNOWLEDGE

- Discern the basic terminology in the field of information technology and medical informatics.
- Formulate the basic principles of medical physics, anatomy and physiology in relation to the operating principles of medical instruments.
- Present the use and basic operating principles of the various medical instruments.
- Interpret structural diagrams of various levels of medical institutions, and the corresponding electronic circuits.
- State the individual key arrangements of medical instruments and analyse their functions, utilizing knowledge on medical IT and biomedical technology.
- Recognize malfunctions in medical instruments using basic diagnostic methods.
- Discern and analyse the problems that could come up in a medical instrument, using proper measuring methods and provide the appropriate ways to overcome them.
- Present the general medical informatics principles with the corresponding Greek and English terminology.
- Specify clearly the health and safety rules and state the protective measures for any corrective rectification action for malfunctions in medical IT systems and medical instruments.

SKILLS

- Install and manage appropriate system software, applications software and medical applications software in computer systems in accordance with the instructions of the manufacturers.
- Connect and manage systems of medical instruments, according to the instructions of the manufacturers for the needs of a business or organization.
- Operate and support medical instruments whose operation is controlled by special purpose computer, in accordance with manufacturer instructions.
- Fill the necessary maintenance documents of medical instruments and update the maintenance logs thereof.
- Perform preventive maintenance of medical instruments using correct measurement methods, suitable tools, instruments and control devices in conjunction with the appropriate printed materials and technical manuals for troubleshooting and problem solving.
- Maintain medical instruments according to the manuals of the manufacturers, unattended.
- Manage and evaluate the equipment of a medical instrument repair and maintenance workshop.
- Record characteristics, the findings and the observations on the progress and results of operation, management and maintenance of medical instruments and prepare the relevant reports.
- Perform the restoration actions for possible failures of the active hardware and software of medical instruments by applying the relevant manufacturer's instructions.
- Archive the technical manuals and the installation and operating manuals of medical instruments, along with the information books and software for managing medical instruments in a laboratory.
- Seek learning, information and training in regard to the exercise of his/her profession and the new trends in the field of medical IT applications.

COMPETENCES

- Receive and properly execute the manufacturer maintenance instructions at medical instrument hardware and software level.
- Effectively collaborate with medical instrument users and administrators of medical IT applications to support and adequately maintain the facilities and the respective hardware.
- Operate in accordance with the security policy of the organizations and businesses employing him/her and observe the applicable regulations and safety measures for medical instruments.
- Operate in accordance with the legal framework relating to the protection of sensitive personal patient and medical data and apply the rules of ethical responsibility and the code of ethics.
- Effectively collaborate with other professionals (e.g. physicians, nurses, assistants, administrative employees, etc.) working in the same area.
- Inform the medical, nursing and paramedical personnel on issues on the use and safety of medical instruments.

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 employed in state or private hospitals, clinics, diagnostic laboratories, infirmaries, medical equipment production industries, commercial and trade agencies, medical equipment shops, or can work as a freelancer.

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/>

Level of the certificate (national or European) ¹

Level 5 National and European Qualifications Framework

Access to next level of education / training ¹

Yes

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

Authority providing accreditation / recognition of the certificate

E.O.P.P.E.P.
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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)

International agreements on recognition of qualifications ¹

No

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:

Analogue Electronics, Digital Electronics, Electrotechnics, Computer Programming, Communication Technique and Business Dexterity, Anatomy, Medical Physics, Medical Equipment Technology, Network Technology, Measurements and Statistics, Physiology, Medical IT, Biomedical Technology Administration, Hygiene and Protection of the Environment, Special Hospital Installations, 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.