1. Title of the certificate [1]

Δίπλωμα Επαγγελματικής Ειδικότητας Εκπαίδευσης και Κατάρτισης Επιπέδου 5 Ειδικότητα Ι.Ε.Κ.:
ΤΕΧΝΙΚΟΣ ΕΦΑΡΜΟΓΩΝ ΙΑΤΡΙΚΗΣ ΠΛΗΡΟΦΟΡΙΚΗΣ

2. Translated title of the certificate [2]

Vocational Training Diploma Initial Vocational Training (I.E.K.) Level 5 Specialty of I.E.K:
MEDICAL IT APPLICATIONS 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.
- Describe the operation of medical informatics systems and computer networks, discern and analyse hardware, software and services.
- State the individual key parts of a computer system and analyse their functions, without using manuals.
- Identify the categories, the basic features and capabilities of the major operating systems (MS-DOS, Windows, Unix, Linux, Mac OS X).
- Discern the various database organization models and identify the architecture levels of a database.
- Decode the procedure for running a program by implementing the necessary algorithmic knowledge, along with knowledge for analysing and synthesizing a problem using different programming languages.
- Explore the basic principles and theories of modern software design and development methods.
- Present the general medical informatics principles with the corresponding Greek and English terminology.
- State the basics of biology, anatomy, physiology and pathology in relation to the operating principles of the main medical devices.
- Identify the usefulness and application of the Health Units Organisation and Management principles, as well as of the basic principles of biomedical technology management.
- Recognize the role and potential of telemedicine, Bio-statistics and eLearning and their implementation in Greece.

SKILLS

- Install and manage appropriate system software and application software in computer systems in accordance with the instructions of the manufacturers.
- Manage and evaluate the hardware and software of a medical IT system.
- Keep the computer software updated using the corresponding updating functions and online resources.
- Maintain computers and their software based on the manufacturer's manuals, unattended.
- Efficiently manage the database system of information systems and independent computers with regard to medical and hospital files.
- Take recovery actions against possible failures of hardware, taking backups of data and software and applying the relevant instructions.
- Manage through programming the multimedia hardware and software.
- Manage integrated application software development tools (IDE) for creating and managing medical informatics applications.
- Operate and support medical instruments whose operation is controlled by special purpose computer, in accordance with manufacturer instructions.
- Monitor National Information Databases for available medical instruments, supplies, sanitation services and disease statistics.

COMPETENCES

- Receive and properly execute the manufacturer maintenance instructions at hardware, software and computer network level.
- Effectively collaborate with computer users and administrators of medical IT systems to support and adequately maintain the facilities of networks, installed software applications and the respective hardware.
- Apply various communication techniques for the efficient collaboration with the members of a workgroup and the effective communication with customers.
- Recognize and use different types of information sources and research tools for his/her work.
- Operate in accordance with the security policy of the organizations and businesses employing him/her and observe the relevant rules.
- Develop trust with users, inspire a sense of responsibility and safety, as regards the handling of digital data stored on the PC supported.
- Operate under the legislative framework regarding the protection of sensitive personal and medical data and the protection of software rights, and apply the rules of ethics.
- 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.

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

The holder of this specialisation certificate may work in IT Departments of Private Clinics, in Public Hospitals, Treatment Clinics, Health centres, Diagnostic Centres, Private Practices, Healthcare facilities, Insurance funds.

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.
(National Organisation for the Certification of Qualifications and Vocational Guidance)
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https://www.eoppep.gr/

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 qualifications [1]

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:

English, Introduction to Computers I & II, Application Design, Visual Basic Programming Language, Operating Systems (Windows, Unix, Linux) I & II, Word Processing in Windows, Spreadsheets in Windows, Principles of Image Processing, Data Structures - File Organization, C ++ Programming Language, Databases in Windows, Communications - Computer Networks, Internet Technologies and Services I & II, Advanced Programming Techniques in the Internet, Introduction to Multimedia, Audio and Signal Processing, Anatomy - Physiology I & II, Nosology I & II, Biostatistics I & II, Health Information Systems I & II, Computer-aided Statistics I & II, Public and Social Health, Organization and Management of Healthcare Units, Databases - Medical Records, Database Management in Oracle Environment - SQL Language, English Medical / Hospital terminology, Project Management for the Development of Health IT Systems, English IT Terminology and computers, Telemedicine - Distance Learning in Healthcare Units, Medical Devices

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

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[1] If applicable.