

1. Title of the certificate <sup>1</sup>

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

2. Translated title of the certificate <sup>2</sup>

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

## 3. Profile of skills and competences

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

**KNOWLEDGE**

- Identify the basic terminology in the field of IT in Greek and in English.
- Describe the operation of IT systems and computer networks, discern and analyze hardware, software and services.
- State the individual key parts of a computer system and analyze 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).
- Formulate the key principles for transmitting data.
- Describe the Open Systems Interconnection (OSI) reference standard and discern the key operations of each level.
- 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 analyzing and synthesizing a problem using different programming languages.
- Formulate the basic principles and theories of modern software design and development methods.
- Present the most important methods and techniques governing the software production phases for computers.
- Specify clearly the health and safety rules and state the protective measures for any corrective rectification action for malfunctions in computer hardware and software.

**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 computer 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.
- 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 software application development tools (IDE), to create software applications.
- Participate in the design and development of software systems software or software projects under the supervision of the software engineer.
- Develop and manage web applications using appropriate tools and programming languages.

**COMPETENCES**

- Receive and properly execute the manufacturer maintenance instructions at hardware, software and computer level.
- Propose the appropriate software development methodology and the tools necessary for the development of IT applications.
- Take the necessary measures to protect IT systems and independent computers from potential threats.
- Effectively collaborate with computer users and administrators of IT systems to support and adequately maintain the installed applications and the respective hardware.
- Effectively collaborate with software engineers for the design and development of integrated software systems.
- 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 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 IT applications.

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

#### 4. Range of occupations accessible to the holder of the certificate <sup>3</sup>

The holder of this diploma can be occupied in the manufacture, support, operation and maintenance of software applications or in the sale of IT products, in the public and private sector, as an employee or on a self-employed basis.

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 )  
Ethnikis Antistaseos 41 Avenue, 142 34 N. Ionia  
<https://www.eoppep.gr/>

##### Level of the certificate (national or European) <sup>1</sup>

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 <sup>1</sup>

Yes

##### International agreements on recognition of qualifications <sup>1</sup>

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 <sup>1</sup>

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 Information Science, Algorithmic and Data Structures I, Computer Architecture, Operating Systems I, Data Communication and Internet Technologies I, Labour Matters and Communication Technique, Specialized English II & III, Algorithmic and Data Structures II, Databases I, II & III, Software Technology and Applications (Software Engineering), Programming Language I (Pascal), II (C-1), III (C-2), IV (C++) & V (Client Server Tools IDE – RDBMS), Computer Networks I & II, Legislation (Sensitive Personal Data, Copyright, Innovations), Interdisciplinary Project.

##### 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](mailto:europass@eoppep.gr)  
<http://europass.eoppep.gr> [www.eoppep.gr](http://www.eoppep.gr)

<sup>1</sup> If applicable.