

1. Title of the certificate ¹

**Δίπλωμα Επαγγελματικής Ειδικότητας Εκπαίδευσης και Κατάρτισης Επιπέδου 5 Ειδικότητα Ι.Ε.Κ.:
ΕΙΔΙΚΟΣ ΓΕΩΓΡΑΦΙΚΩΝ ΣΥΣΤΗΜΑΤΩΝ ΠΛΗΡΟΦΟΡΙΩΝ (GIS)**

2. Translated title of the certificate ²

**Vocational Training Diploma Initial Vocational Training (I.E.K.) Level 5. Specialty of I.E.K.:
GEOGRAPHICAL INFORMATION SYSTEMS SPECIALIST**

3. Profile of skills and competences

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

KNOWLEDGE

- Describe the operation of computer systems and networks, discerns and analyses the hardware, the software, and the services.
- Specify the functions and commands of the major operating systems (Windows, Unix).
- Analyse the basic principles of probabilities and statistics.
- Analyse the elements contributing to the formation of the various features of the earth and the way man interacts with the natural environment.
- Recognize and combine the key elements of Economic Geography of Greece in the three industries (primary, secondary, tertiary).
- State the various mapping techniques and describe the automated and thematic cartography.
- Discern primary data structures used for representation or description of events.
- Investigate the basic principles of design and development of multimedia, web applications and Internet technologies available for support.
- Present a geographical information system (GIS), its components parts, the gathering, processing and presentation of information.
- Formulate out the basic principles of Photogrammetry and Remote Sensing and describe the process and the means to take reliable measurements of the earth relief by terrestrial or aerial photos.
- Describe the relevant provisions of the national, European and international legal framework in the field of Information Technology.

SKILLS

- Install and manage appropriate system software and application software in computer systems in accordance with instructions
- 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.
- Perform map digitization using the appropriate software.
- Draw a simple design using a CAD program.
- Draw a group of thematic maps analysing and presenting anthropographic, physical and economic phenomena of a geographical unit.
- Collect and manage mapping information (AM - Automated Mapping).
- Install and manage completely new software packages for the GIS in various fields of applications.
- Manage primary data structures (tables, files) to solve problems and organize files.

COMPETENCES

- Receive and properly execute the manufacturer maintenance instructions at hardware, software and computer network level.
- Collaborate effectively with computer users and administrators of geographical information 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 in a workgroup and the effective contact 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 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 of software rights applying 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.

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

The holder of this diploma can be occupied in any office or institution in the public or private sector that uses the Geographic Information Systems, especially in the recording, protection and management of private and public realty, in the planning of land use, in the urban and land-planning scheduling, in common utility networks (water supply, sewerage etc.), in traffic and transport studies, in the surveillance and protection of the environment and natural resources, as well as in rural growth and restructuring.

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).

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

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

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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 qualifications¹
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:

Statistics - Probabilities I & II, Public Administration – Local Authorities, Operating Systems DOS - WIN, Word-processing in WIN, Spreadsheets in WIN, Operating System UNIX, Geography, Automated and Thematic Cartography, Databases in WIN, Data Structures – File Management, Multimedia Technology, Introduction to Computer Design Programs - Digitalisation, Geographic Information Systems, Photogrammetry - Teledetection, Urban planning - Land planning, Cadastre, Computer-aided Import of data – Analysis – Output of G.I.P., Programming Language for G.I.P. Software, G.I.P. Mosaic (IDRSI), Computer-aided Territorial Data Depiction, Computer-aided Networks Analysis (Road Construction - Water Supply - Sewerage), Pilot Implementation (4 weeks), English.

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.