

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

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

### 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:  
TECHNICIAN OF MEASURING INSTRUMENTS**

### 3. Profile of skills and competences

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

#### KNOWLEDGE

- Discern the scientific vocabulary and basic terminology in his/her domain, both in Greek and English language.
- Describe the basic principles of electrical engineering and electronic technology.
- Describe the calculation and construction methodologies for simple electronic circuits with analogue and digital electronic components (discrete and integrated circuits).
- Describe a digital electronic circuit and appropriate instruments to detect faults in the circuit.
- Specify the basic electronic devices and power and signal sources.
- Analyse the operation of electronic technology systems (electronic and mechanical devices) and the fault detection methods for them.
- Present methods and measuring systems, recording instruments and the instrument calibration procedures.
- Discern the measurement processing methods by using a computer.
- Describe the individual provisions of measuring instruments and analyse their functions, without using manuals.
- Recognize malfunctions in measuring instruments using basic diagnostic methods.
- Specify clearly the health and safety rules and states the protective measures for any corrective rectification action for malfunctions in the hardware and software of measuring instruments.

#### SKILLS

- Install and configure computers properly at hardware, system software and office applications level.
- Perform preventive maintenance to measuring instruments, according to the manufacturer instructions, unattended.
- Fill the necessary maintenance documents of the measuring instruments and update the maintenance logs thereof.
- Manufacture measuring instruments for various volumes, such as temperature, mass, pressure, current frequency, length, torque, in accordance to specifications.
- Check and calibrate the measuring instruments, in order to certify their proper operation in accordance with the standard accuracy instruments used internationally.
- Repair and maintain measuring instruments, as per the standard precision instruments and/or the instructions of their manufacturers.
- Certify the reliability of the standard accuracy measurement devices.
- Operate standard accuracy instruments in order to compare and regulate measuring instruments of various sizes and auxiliary devices, such as special silicon-oil baths for thermometers, electrical machines to check temperature, ovens, computers, etc.
- Perform the preventive maintenance of measuring instruments, based on the maintenance schedule of the manufacturer or the standard accuracy instruments, unattended.
- Apply a suitable methodology for measuring instruments, using the necessary tools and instruments.

#### COMPETENCES

- Receive and properly follow the manufacture and maintenance instructions for measurement instruments and standard precision instruments.
- Collaborate effectively with the users and operators of measuring instruments, in order to support and maintain adequately the facilities and hardware.
- Operate in accordance with the security policy of the organizations and businesses employing him/her and observes the rules.
- Develop trust with users, inspire a sense of responsibility and safety, as regards the handling of digital data in the instruments and systems supported.
- Operate under the legislative framework regarding the protection of sensitive personal data and apply the rules of ethical conduct.

<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 specialisation certificate may work in laboratories or units using measuring instruments.

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  
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##### 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:

Electrotechnics - Principles of electronic technology, Elements of mechanical technology of electronic modules, Analogue electronics, Digital electronics, Introduction to computers and programming, Microprocessors I, II, Communications I, II, Electronic modules and Diagnostic methods, Organology I, II, Supply and signal sources, Applications of electronic technology - Diagnostic methods, Measuring methods and systems, Recorders, Calibration procedures, Measurement processing - Reliability - Computer-aided measurements, English terminology, English, Computer use.

##### 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.