

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

**Δίπλωμα Επαγγελματικής Ειδικότητας Εκπαίδευσης και Κατάρτισης Επιπέδου 5 Ειδικότητα Ι.Ε.Κ.:  
ΤΕΧΝΙΚΟΣ ΕΓΚΑΤΑΣΤΑΣΕΩΝ ΨΥΞΗΣ ΑΕΡΙΣΜΟΥ ΚΑΙ ΚΛΙΜΑΤΙΣΜΟΥ**

### 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.:  
HVAC INSTALLATIONS TECHNICIAN**

### 3. Profile of skills and competences

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

#### KNOWLEDGE

- Interpret a technical drawing, and draw an installation or an accessory in a sketch.
- Explain the methods for cooling, a simple or composite cooling, and identify the accessories and operations thereof.
- Present the operation of basic electric circuits and automation systems.
- Formulate the operation of electrical engines, identify the types, and state the operation of compressors.
- Demonstrate the safe operation of tools (hand and power tools).
- Express clearly and by using examples the principles of thermodynamics and its basic concepts, and the principles and systems of air conditioning.
- Identify basic concepts of his/her profession from English to Greek.
- State the basic operations of computer software relevant to the conduct of his/her obligations.
- List the risks that apply in every stage of works.

#### SKILLS

- Use instruments for technical measurements (callipers, micrometers, multimeters, clamp-on meters, manometers, etc.).
- Use the P-h diagram and the psychrometric chart.
- Extract results from simple calculations (volume measurement, unit conversion, etc.).
- Manufacture a facility (simple or composite) from a drawing issued to him/her.
- Locate malfunctions in a facility (air conditioning, ventilation, cooling) and its various components and repair/restore them.
- Select the suitable tools and use them properly and with safety.
- Provide first aid in the event of minor accidents.
- Calculate simple anti-vibration mounting structures for the cooling machines.
- Handle his/her electronic correspondence, use an office suite for simple applications (preparation of offers, reports, clientele, etc.) and locate basic information related to the subject of his work in the internet.
- Place anti-vibration mounting structures, soundproofing / sound-reducing modules.
- Handle the wastes created (Freon).
- Prepare bills of quantities.
- Apply the safety regulations on the protection of employees, of the work site, and of the environment.

#### COMPETENCES

- Act both under the instructions of an engineer and autonomously, within the framework of responsibility that applies to him/her from the applicable law.
- Evaluate the latest information and data in his/her profession, by revising his/her initial knowledge.
- Collaborate without problems with colleagues, either accepting or executing instructions.
- Responsibly keep all necessary safety measures.

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

The holder of this Institute of Vocational Training specialisation certificate may engage with the installation, maintenance, control, and repair of cooling and air-conditioning systems.

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).

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

Level 5 National and European Qualifications Framework

### Access to next level of education / training <sup>1</sup>

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.  
(National Organisation for the Certification of Qualifications and Vocational Guidance )  
Ethnikis Antistaseos 41 Avenue, 142 34 N. Ionia  
<https://www.eoppep.gr/>

### 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<sup>1</sup>

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 <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:

Communication Technique-Entrepreneurship, Drawing, Constructions Technology, General Engineering, Work Safety, Elements of Thermodynamics and Fluids Mechanics, Electro-technical Applications, Compressors, Refrigeration Technology, Refrigeration Installations Automations, Air-Conditioning, Refrigeration Installations Designing, Use of PC, English language

### More information

National Qualifications Framework : [www.nqf.gov.gr](http://www.nqf.gov.gr) and <http://proson.eoppep.gr>

National Europass Centre: **EL/NEC - E.O.P.P.E.P.** National Organisation for the Certification of Qualifications and Vocational Guidance EOPPEP Ethnikis Antistaseos 41 Avenue, 142 34 N. Ionia. 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.