

1. Title of the certificate ¹

**Δίπλωμα Επαγγελματικής Ειδικότητας Εκπαίδευσης και Κατάρτισης Επιπέδου 5 Ειδικότητα Ι.Ε.Κ.:
ΙΑΤΡΙΚΩΝ ΚΑΙ ΒΙΟΛΟΓΙΚΩΝ ΕΡΓΑΣΤΗΡΙΩΝ - ΒΙΟΧΗΜΙΚΟΥ ΚΑΙ ΜΙΚΡΟΒΙΟΛΟΓΙΚΟΥ ΕΡΓΑΣΤΗΡΙΟΥ**

2. Translated title of the certificate ²

**Vocational Training Diploma Initial Vocational Training (I.E.K.) Level 5. Specialty of I.E.K.:
MEDICAL AND BIOLOGICAL LABORATORIES - MICROBIOLOGICAL /BIOCHEMICAL LABORATORY
TECHNICIAN**

3. Profile of skills and competences

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

KNOWLEDGE

- State the basic biological concepts and physiological functions of the systems of the human body.
- List the basic concepts of immunology and the definitions of antigens and antibodies.
- Mention the fundamental biochemical characteristics of the most frequent microbiological pathogenic strains.
- Formulate the main biological sample analysis and cultivation techniques, including blood samples sent for simple tests (e.g. general blood test, ESR), urine, faeces, saliva, semen, cerebrospinal fluid, etc.
- Report the virulence factors and the ways of transmission.
- Present the hygiene and safety regulations of a biochemical / microbiological laboratory and the ways of protection against infectious agents through measures of antiseptics, disinfection, and sterilization.
- Compare the methods for sterilizing materials and consumables in a biochemical / microbiological laboratory.
- Distinguish the waste types of a microbiological / biochemical laboratory in the individual categories (infectious, corrosive, toxic, etc.) and recognize the method of disposal thereof.
- State the devices and instruments composing the equipment of a biochemical / microbiological laboratory and the way they operate.
- Describe the use of the basic computer software for the processing of samples.

SKILLS

- Provide instructions to the persons examined by phone to their proper preparation before the collection of the biological material for examination.
- Undertake, under supervision, the blood collection from patients in the laboratory environment.
- Receive samples of biological liquids collected from the patient.
- Apply, under supervision, the protocols for general blood tests, biochemical tests, microbiology tests and cultivations (including fungal and parasitological tests).
- Store with order the various samples forwarded for testing in the microbiological / biochemical laboratory.
- Perform microbial identification tests using protocols and techniques based on morphological, biochemical or molecular data, under supervision.
- Prepare nutrients and sterilises nutrients and solutions for the development / identification of bacteria coming from blood samples of patients.
- Prepare blood samples from patients and prepares the blood analyser to perform automated tests/
- Enter results to the computer and stores the resulting files.
- Report any problems concerning the operation / maintenance of the machines and, upon approval by the person in charge and organize the relevant repairs.

COMPETENCES

- Work under the supervision of the person responsible for the microbiological / biochemical laboratory.
- Contribute to the prevention of accidents showing responsible behaviour to the work site and following the proper safety rules.
- Collaborate smoothly with the remaining personnel with the purpose of ensuring the proper and effective operation of the institution, hospital, or laboratory employing him/her.

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

The holder of this certificate can be occupied as assistant to a tertiary education Microbiologist or Biochemist in microbiological or biochemical laboratories, in the public or private sector.

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

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 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:

Basic Concepts in Biology – Physiology, Microbiology I & II, Biochemistry I & II, Sterilization and Laboratory Equipment, Hematology, Laboratory Equipment Technology, Parasitology, Immunology, Hospital Infections and Hygiene, Laboratory Tests - Diagnoses, Mycology / Virology, Clinical Biochemistry, Safety and Ethics, English, Computing.

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.