
1. Title of the certificate ¹

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

2. Translated title of the certificate ²

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

3. Profile of skills and competences

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

KNOWLEDGE

- List the basic principles of chemistry and physical chemistry, the types of materials, the relation between the structure, the properties, and the processes, and the interactions between the environment and materials.
- Describe the methods for checking the microstructure and mechanical properties of materials, the design, the processes, and the behaviour of specific materials, such as metals, polymers, ceramics, synthetics, advanced materials, liquid crystals materials, etc.
- Identify methods of connection and calibration of the machines used to control materials.
- Formulate the basic principles of business administration, reporting, keeping data files in electronic and printed form, and the statistic treatment of values.
- Describe the fundamental relations between the structure, the properties, and the technical processes of materials, as endogenous parameters characterising the materials and the phenomena, and the mechanisms affecting exogenous parameters (environmental wear factors) on the fundamental specifications of materials at micro- and macro-structure level.
- Describe the causes affecting the quality of materials.

SKILLS

- Check the mechanical properties, perform strength - deformation - hardening - stress tests, perform annealing - solidification - reinforcement works and thermal processing.
- Apply material control and protection methods, in organic and non-destructive control techniques of the quality of materials / installations / works.
- Characterise the quality of materials and evaluate the environmental impacts on materials.
- Design, select and manage the materials, applied to the scale of actual systems and to the conditions of their functional environment.
- Draw safe conclusions about the quality of materials.
- Safely interpret the causes affecting the quality of materials.

COMPETENCES

- Check with sufficiency the keeping of quality specifications for materials, based on national standards and legislation.
- Responsibly observe the health and safety instructions, the instructions about measures for the protection of workers in chemical laboratories and in material control laboratories.

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

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

The holder of the diploma of this specialization can be employed in industrial units, workshops, building materials research centers and university laboratories.

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

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Level of the certificate (national or European) ¹

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 ¹

Yes

International agreements on recognition of qualifications ¹

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 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:

Instrument Technology, Chemistry, Materials Science, Physical and Mechanical Properties of Materials, Environment, Applied Mathematics, Physics and Chemistry, Electrotechnics, Metrology, Statistics, Laboratory of Basic Processes, Natural Methods of Chem. and rock. Analysis, Laboratory Safety and Hygiene and Hazardous Materials, Instrument Maintenance, Standardization of Testing - Conditions, Trial Organization - Laboratory Accreditation, Statistical Sampling, Practice.

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.