

1. Title of the certificate ¹

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

2. Translated title of the certificate ²

**Vocational Training Diploma Initial Vocational Training (I.E.K.) Level 5 Specialty of I.E.K:
WORK MACHINERY (WM) TECHNICIAN**

3. Profile of skills and competences

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

KNOWLEDGE

- Describe the basic operation principles of fuel supply systems and their subsystems in WM (fuel pumps, nozzles, auxiliary oil pumps, etc.), along with all types of WM, the accessories, and the operations thereof.
- Describe the basic principles of operation for the diesel oil engine, the petrol engine, the exhaust system, the fuels and the lubricants used, along with the law on WM-generated noise.
- Identify the basic principles of operation of the transmission systems, of the steering systems, of the brakes, of the suspensions (in WM fitted with them, such as Tractors, Trucks, Dampers), of differential systems, of internal / external timing, of lubricating, and of the hydraulics system.
- State the technical terminology, read the service manuals and the parts book of WM.
- Discern the basic concepts of construction for the frames and the operator cabins in WM, along with the basic principles of operation of rolling systems (tractors, rollers, etc.) in WM.
- Present the principles for organizing and operating a machine shop.
- Interpret the mechanical drawings of the WM systems and accessories.
- Describe the basic elements of engineering, material strength, mechanical drawing, machine components, electrical engineering, electronic systems, automation systems, for calculating exhaust gases, the basic principles of operation of cooling systems, and their mechanisms in WM.
- State the basic concepts of his/her profession in English and in Greek in order to conduct basic professional communication (in writing or oral form).
- List the safety measures for each stage of work.

SKILLS

- Properly operate and maintain tools (hand and power tools), machinery, systems, and devices, considering general instructions, technical specifications, technical manuals, regulations and specifications regarding work safety.
- Select and use instruments for technical measurements and testing (callipers, micrometers, multimeters, and automation instruments).
- Extract results from simple calculations, by performing simple and basic calculations with the purpose of finding figures in simple applications (volume measurement, unit conversion, etc.).
- Resolve technical problems arising during his/her work.
- Systematically use and apply the personal protection equipment and health equipment imposed by law.
- Select the suitable tools and use them properly and with safety.
- Provide first aid in the event of minor accidents.
- Handle his/her electronic correspondence and 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.
- Organise his/her work site, keeping it orderly and clean during work.
- Manage the wastes created (hydraulic liquids, lubricants, air filters, oil filters, etc.).
- Prepare for the conduct of a work, calculating the materials and tools required.
- Calculate and prepare the works and materials referring to the repair and maintenance, for issuing bills of quantities.

COMPETENCES

- Understand the safety regulations, the preventive measures and the law on the protection of employees, of the work site, and of the environment, while holding basic fire-fighting techniques.
- Sufficiently assess the conditions during work and select the best possible technical and financial solutions.
- Take the initiative and adjust his/her behaviour at the relevant conditions.
- Act both under the instructions of an engineer / superior and autonomously, within the framework of responsibility that applies to him/her from the applicable law.
- Look for the latest information and technological data in his/her profession, by revising his/her initial knowledge.
- Develop constructive and unproblematic collaborations through proper communication both with the customers and with their colleagues, whether receiving or executing instructions.

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 this Institute of Vocational Training specialisation certificate may work in roadwork sites, in building worksites, and anywhere else work machinery is used.

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/>

Level of the certificate (national or European) ¹

Level 5 National and European Qualifications Framework

Access to next level of education / training ¹

Yes

Authority providing accreditation / recognition of the certificate

E.O.P.P.E.P.
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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 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:

Mechanical drawing, Machine elements, Material strength, Machining technology, Occupational safety, Material technology, Work machinery type, Hydraulic systems, Internal combustion engines, Operation - Nomenclature for work machinery, Rolling systems, Steering-Braking systems, Differentials - Final motions - Automated gearboxes, - T.C., Maintenance and repair of work machinery, Organisation and operation of work machinery crews, Elements of electric and electronic systems, 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
<http://europass.eoppep.gr> www.eoppep.gr

¹ If applicable.