

1. Title of the certificate ¹

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

2. Translated title of the certificate ²

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

3. Profile of skills and competences

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

KNOWLEDGE

- Describe the types of engines and their subsystems in vehicles of conventional and new technology, and the basic principles of operation of a diesel oil engine, a petrol engine, the exhaust system and the law on noise, the basic principles of operation of fuel supply systems and their subsystems in vehicles (fuel pumps, nozzles, auxiliary oil pumps, etc.).
- Present the basic principles of operation for gearboxes, transmission systems, braking systems, suspension and steering systems, differentials - hydraulic systems, lubrication, and clutch systems.
- Explain the basic principles of operation of the vehicle air conditioning systems and analyse the basic principles of operation of air compressor systems.
- Identify the fuels and the lubricants used.
- Present the principles for organizing and operating a machine shop.
- Interpret the mechanical drawings of systems and accessories in vehicles and sketch a part.
- List the instruments for technical measurements and testing (callipers, micrometers, multimeters, and automation instruments).
- State the basic elements for machining technology, engineering, material strength, mechanical drawing, engine components, electrical engineering and sensors, thermal machines, internal combustion engines, vehicle handling, and techniques for dealing with vehicle pollution.
- State the safety regulations and the law on the protection of employees, the work site, and the environment.
- Describe the basic fire-fighting techniques, the risks related to the use of fuel, and the prevention measures.
- Understand the basic concepts of his/her profession from English to Greek and conduct basic professional communication (in written or oral form) in English, using concepts of his/her profession and technical terms.
- Present basic software for his/her work using a computer.

SKILLS

- Use advanced diagnostics methods (LED, parallel, OBD I & OBD II).
- Locate malfunctions in the various systems and mechanisms.
- Use technical terminology, the service manuals and the parts book of vehicles.
- Select the suitable tools (manual and power) and use them properly and with safety.
- Properly operate and maintain tools, machinery and devices, considering general instructions, technical specifications, technical manuals, regulations and specifications regarding work safety.
- Provide first aid in the event of minor accidents.
- 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.
- Organise his/her work site, keeping it orderly and clean during work.
- Manage the wastes created (hydraulic liquids, lubricants, air filters, oil filters, etc.).
- Check, maintain, repair and regulate the engine and its subsystems in vehicles of conventional and new technology.
- Calculate and cost the works and materials referring to the repair and maintenance and issue bills of quantities.
- 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.).

COMPETENCES

- Perceive the risks in every stage of work and promptly take the necessary safety measures.
- Systematically apply the personal protection equipment and health equipment imposed by law.
- Work by combining the above knowledge and skills in different environments, through a dependent-employment or freelancing relation, as an employee of a small or large business or autonomously, taking the initiative and adjusting his/her behaviour to the various 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.
- Assess the conditions during work and select the best possible technical and financial solutions.

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 diploma can be employed in automobile service companies, in car repair and maintenance companies, in power units using internal combustion engines, in vehicle control services and organisations, as well as in car industries.

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

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

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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

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:

Communication Technique - Business Dexterity, Mechanical Drawing, Technical Mechanics – Materials Technology, Principles of Thermal Engines, Machine Technology, Automobile Computer Systems, Elements of Electrotechnics and Sensors, Work and Environmental Hygiene and Safety, Vehicle Fuels – Lubricants – Liquids, Machine Design, Internal Combustion Engines, Organisation and Operation of a Car Repair Shop, Vehicle Pollution Control Techniques, Fuel Injection Systems, Motion Transmission Systems, Vehicle Air Conditioning, Legislation and Vehicle Technical Control, Car Electrical System, Break - Suspension - Steering Systems, Car Body and Cage Technology, Vehicle Road Behavior, Modern Diagnostic Methods, 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.