

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

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

### 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.:  
AUTOMOBILE ELECTRICAL TECHNICIAN**

### 3. Profile of skills and competences

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

#### KNOWLEDGE

- Identify the basic electrical systems, the basic principles of operation of the electronic systems and of the automation systems, and the various mechanisms (ABS/ ASR /ESP ADS) found in modern vehicles.
- Identify the basic principles of operation of the systems used for transmission, for braking, for suspension, for steering, of the differential systems, of hydraulics systems, and of the various mechanisms thereof in the vehicles.
- Acknowledge electrical diagrams and the basic wiring of the automobile as well as the connections of automobile automation circuits, of electrical accessories, transformers, injection systems, sound systems, anti-theft systems, and the basic principles of fuel ignition systems.
- Explain the basic principles of operation of the heating and air conditioning systems used in automobiles.
- Describe the basic principles of technology regarding chassis and passive safety systems.
- Present the principles for organizing and operating a machine / electrical shop.
- Interpret the electrical engineering drawings of systems and accessories in vehicles and sketch their parts.
- Know basic elements of automobile mechanical engineering, of machine technology, of electrical and mechanical drawing, of electrical engineering, of automations, of sensors, of diagnostic devices, of electronics, and of internal combustion engines.
- State the safety regulations and the law on the protection of employees, the work site, and the environment.
- Understand the basic concepts of his/her profession in English, conducting basic professional communication (in written and in oral form) in English, by using the concepts of his/her profession and technical terms.
- State software used to support his/her work.
- Present the instruments for technical measurements and testing (callipers, micrometers, multimeters, and oscilloscope).
- State the principles for managing wastes, created from the works required.

#### SKILLS

- Extract results from simple calculations, by performing simple and basic calculations with the purpose of finding figures in simple applications (unit conversion, etc.).
- Connect simple electronics elements (diodes, transistors, operational amplifiers).
- Use advanced diagnostic methods and devices (exhaust gas analyser).
- Take measurements of voltage – current – oscillograms, and basic measurements of sensors.
- Use technical terminology, read service manuals and the parts book of vehicles.
- Properly operate and maintain machinery, tools (hand and power tools), devices, and automation circuits considering general instructions, technical specifications, technical manuals, regulations and specifications regarding work safety.
- Give first aid in the event of minor accidents, using the fire-fighting and fire protection measures.
- 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.
- Prepare for the conduct of a work, calculating the materials and tools required.
- Cost the works and materials referring to the repair and maintenance, will issuing bills of quantities.

#### COMPETENCES

- Sufficiently assess the conditions during work and select the best possible technical and financial solutions.
- Systematically observe 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.

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

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

The holder of this diploma can work as an employee or on a self-employed basis in car repair shops in the private or public sector, in spare parts marketing companies, or in garages for car assembly and accessory placement.

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) <sup>1</sup>

Level 5 National and European Qualifications Framework

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

Yes

##### 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  
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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 <sup>1</sup>

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 <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 - Business Dexterity, Electrical Technology, Electronics, Machine Craft Applications, Automobile Mechanical Engineering, Automatism – Sensors – Diagnostic Equipment, Automobile System, Automobile Electrical Systems I & II, Car Body – Passive Safety, New Technology Automobiles, The Profession of the Automobile Vehicle Electrician, 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](mailto:europass@eoppep.gr)  
<http://europass.eoppep.gr> [www.eoppep.gr](http://www.eoppep.gr)

<sup>1</sup> If applicable.