

1. Title of the certificate ¹

**Δίπλωμα Επαγγελματικής Ειδικότητας Εκπαίδευσης και Κατάρτισης Επιπέδου 5 Ειδικότητα Ι.Ε.Κ.:
ΤΕΧΝΙΚΟΣ ΜΗΧΑΝΩΝ ΘΑΛΑΣΣΗΣ ΚΑΙ ΣΚΑΦΩΝ ΑΝΑΨΥΧΗΣ**

2. Translated title of the certificate ²

**Vocational Training Diploma Initial Vocational Training (I.E.K.) Level 5 Specialty of I.E.K.:
MARINE ENGINES AND PLEASURE BOATS TECHNICIAN**

3. Profile of skills and competences

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

KNOWLEDGE

- Identify the types of engines, of marine engines and pleasure boats, and the types of their subsystems.
- Describe the basic principles of operation for a diesel oil engine or a petrol engine, the exhaust system, and the legislation on noise emission.
- Present the basic principles of operation for the fuel supply systems.
- Present the basic principles of operation of electrical and electronic systems in marine engines, of the Mechanical, Electrical and Electronic equipment of pleasure boats, and the various mechanisms thereof, including the basic principles of operation of the pleasure-boats' air-conditioning systems.
- Identify the fuels and the lubricants used.
- Describe the types of pleasure boats, the specifications thereof, as well as the basic principles of sailing.
- Present the principles and the basic structures for organizing and operating a small industry manufacturing pleasure boats.
- Interpret the mechanical, electrical, electronic and naval architectural drawings of systems and accessories used in marine engines and pleasure boats, and sketches parts.
- List the basic details of mechanical technology, of naval architectural materials and material strength, of mechanical design, of machine elements, of electrical engineering and sensors, of thermal engines, of internal combustion engine, of ship building technology and welding, of marine mechanical engineering and of marine engines.
- Understand the basic concepts of his/her profession in English, conducting basic professional communication (in written and in oral form) by using the concepts of his/her profession and technical terms.
- Present basic software for his/her work using a PC.
- Cost the works and materials referring to the repair and maintenance, will issuing bills of quantities.

SKILLS

- Resolve technical problems arising during his/her work.
- Locate malfunctions in the systems of marine engines, of mechanical, electrical, and electronic equipment in pleasure boats, and of the various mechanisms thereof, proceeding to their repair.
- Apply fire protection measures and properly use dry powder extinguishers.
- Select the suitable tools (manual and power) and operate them properly and with safety.
- Properly operate and maintain tools (hand and power tools), instruments for technical measurements and testing, machines, and devices required for the maintenance and repair of the engine of pleasure boats, including the facilities of the boat, while considering general instructions, technical specifications, technical manuals, regulations and specifications for work safety.
- Provide first aid in the event of minor accidents.
- Handle his/her electronic correspondence and uses 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.
- 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.).
- Organise his/her work site, keeping it orderly and clean during work.
- Manage the wastes, both solid and liquid, created (hydraulic liquids, lubricants, air filters, oil filters, etc.).

COMPETENCES

- Understand the safety regulations and the maritime law on the protection of employees, of the work site, and of the environment.
- Sufficiently assess the conditions during work and select the best possible technical and financial solutions.
- Systematically use 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.

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 small or big construction industries of naval materials, instruments, equipment, mechanical equipment, recreation boats, machine shops, repair shops, in repair shops for boat engines (and other machines in general), ship yards, pleasure boats marinas, shipping companies and as a crew member in pleasure boats.
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.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:

Naval Mechanical Engineering, Hydraulic Installations, Refrigeration - Air conditioning – Ventilation Systems, Electric machines and installations in recreation boats, Recreation Boat Manufacture, Boat Engines I & II, Auxiliary instruments - Boat equipment, Maintenance and repair of mechanical equipment, Recreation Boats Industry, Recreation Boats Communication Systems, Naval Legislation, Communication Technique, English.

More information

National Qualifications Framework : <https://nqf.gov.gr/> and <https://proson.eoppep.gr/en>

National Europass Centre: **EL/NEC - E.O.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.