

**1. TITLE OF THE CERTIFICATE (HU)**

52-522-01 Erőművi gépész

**2. TRANSLATED TITLE OF THE CERTIFICATE (EN)**

Power plant mechanic

(THIS TRANSLATION HAS NO LEGAL STATUS)

**3. PROFILE OF SKILLS AND COMPETENCES****A typical holder of the certificate is able to:**

- Comply with and have others comply with the work safety, quality assurance and environment protection regulations and prescriptions;
- Operate, start and switch off the systems, equipment and instruments economically and proficiently;
- Fully monitor and check the structure of the main and auxiliary equipment and the safety equipment of the boiler and steam turbine;
- Bring into operating condition the boiler and steam turbine equipment;
- Make sure that the water chemistry guidelines are complied with in the power plant;
- Make sure that the equipment of the boiler and the steam turbine are operable;
- Ensure the operation of equipment/machines in compliance with the operational and maintenance instructions of the manufacturer;
- Continuously check the operability of the control and protection system of the boiler and the steam turbine;
- Ensure that the conditions for starting the equipment and that the basic operating parameters are in place;
- Immediately signal and take the necessary measures in case any deficiency or irregularity is perceived in the operation or technical condition of the equipment of the boiler or the steam turbine;
- Monitor the parameters indicating the efficiency of equipment and perform the necessary operational checks, controls and protection tests;
- Ensure the necessary conditions prior to the maintenance of equipment;
- Document the work performed, the interventions and the data of on-the-spot inspections based on the instructions of manufacturers and operators.

**4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE**

3151 Operator of energy (power plant) machines

**(\*) Explanatory notes:**

This document is designed to provide additional information about the specified certificate and does not serve as a legal certificate of vocational qualification. The format of the description is based on the following documents:

Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications; Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers.

More information on transparency is available at: <http://europass.cedefop.europa.eu/>

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| 5. OFFICIAL BASIS OF THE CERTIFICATE  |   |   |       |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
|---|---|---|-------|--|------------------|----------------------------------|---|-------|------------------|---|---|-------|-----------------------|----------------------------------|---|-------|-----------------------|---|---|-------|---|--|---|--|
| <b>Name and status of the institute issuing the certificate</b>   |   | <b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b><br><br>Ministry for National Economy   |       |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
| <b>Level of the certificate (national or international)</b><br><br><b>Level of vocational qualification according to the National Qualification Register:</b><br>52 upper secondary vocational qualifications, which require the completion of the secondary school leaving exam and may be obtained primarily in non-formal education<br><br><b>ISCED2011 code:</b><br>4<br><br><b>NQF level:</b><br><br><b>EQF level:</b> |   | <b>Grading scale / Pass requirements</b><br><br>Five -grade: 5    excellent<br>4    good<br>3    satisfactory<br>2    pass<br>1    fail   |       |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
| <b>Certificate number: PT K</b><br><br>Serial number: 123456<br><br><b>Certificate issue date: 2023.10.02</b>   |   | <b>Results achieved at the examination and their proportion expressed in percentage in the complex mark</b> <table border="1"> <tbody> <tr> <td>Oral examination</td> <td>Operation of power plant boilers</td> <td>5</td> <td>20.00</td> </tr> <tr> <td>Oral examination</td> <td>Operation of power plant steam turbines</td> <td>5</td> <td>20.00</td> </tr> <tr> <td>Practical examination</td> <td>Operation of power plant boilers</td> <td>5</td> <td>30.00</td> </tr> <tr> <td>Practical examination</td> <td>Operation of power plant steam turbines</td> <td>5</td> <td>30.00</td> </tr> <tr> <td colspan="2">Result achieved at the complex vocational examination, expressed in grades.</td> <td>5</td> <td></td> </tr> </tbody> </table> |       |  | Oral examination | Operation of power plant boilers | 5 | 20.00 | Oral examination | Operation of power plant steam turbines | 5 | 20.00 | Practical examination | Operation of power plant boilers | 5 | 30.00 | Practical examination | Operation of power plant steam turbines | 5 | 30.00 | Result achieved at the complex vocational examination, expressed in grades. |  | 5 |  |
| Oral examination  | Operation of power plant boilers        | 5   | 20.00 |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
| Oral examination  | Operation of power plant steam turbines | 5   | 20.00 |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
| Practical examination   | Operation of power plant boilers        | 5   | 30.00 |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
| Practical examination   | Operation of power plant steam turbines | 5   | 30.00 |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
| Result achieved at the complex vocational examination, expressed in grades.   |   | 5   |       |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
| <b>Access to next level of education/training</b><br><br>Advancement to higher education  |   | <b>International agreements</b>   |       |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
| <b>Other information concerning the vocational training process</b>   |   |   |       |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |
| <b>Legal basis</b><br><br>Act CLXXXVII of 2011 on Vocational Training<br>Professional and examination requirements specified in Decree No. 12/2013 (28 March) of the Ministry for National Economy.   |   |   |       |  |                  |                                  |   |       |                  |   |   |       |                       |                                  |   |       |                       |   |   |       |   |  |   |  |

## 6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

| Description of vocational education and training received           | Percentage of total programme % | Duration (hours/weeks/months/years) |
|---|---------------------------------|-------------------------------------|
| School-/training centre-based                                       | Theory: 40 % Practice: 60 %     |                                     |
| Workplace-based   |                                 |                                     |
| Accredited prior learning   |                                 |                                     |
| Total duration of the education/training leading to the certificate |                                 | 960 hours                           |

**Entry requirements:**

- Secondary school final exam

**Vocational requirement modules:**

- 11099-12 Requirements governing the operation of power plant machines
- 11100-12 Control, installation and switching off of power plant boilers
- 11101-12 Operation of power plant boiler
- 11102-12 Maintenance of steam turbines and breakdown repair
- 11445-12 Control, installation and switching-off of power plant steam turbines
- 11498-12 Employment I (for training courses built on secondary school-leaving examination)
- 11500-12 Occupational health and safety

This certificate supplement was prepared on the basis of the instruction for filling in the Certificate Supplement published on the homepages of the National Reference Point and the National Europass Centre.

**National Reference Point – NSZFH – <http://nrk.nive.hu>**

Head of Examination Organiser:  
Issue date: 2023.10.02

**SEAL**