

**1. TITLE OF THE PROFESSION**

07134016 Gáz- és Hőtermelő berendezés - szerelő

2. TRANSLATED TITLE OF THE PROFESSIONGas and heat producing equipment mechanic
(THIS TRANSLATION HAS NO LEGAL STATUS)**3. PROFILE OF SKILLS AND COMPETENCES**

- The gas and heat producing equipment mechanic carries out the complete construction and installation of gas and oil-fired equipment and heating installations using so-called renewable energy sources, as well as their operation and maintenance within one system.;
- Carries out the electrical connections, single-potentialisation, checks the air supply during installation and, if flue gas is generated during the operation of the heat generating equipment, the method of its removal and its professional execution;
- Completes and manages the individual construction and commissioning documents, conducts the handover procedures for heat generating equipment;
- Checks the technical condition of certain fittings, tools and equipment, and carries out the necessary maintenance and repair work;
- Complies with and makes colleagues comply with health and safety, contact protection and safety technology regulations during installation;
- Carries out test runs of heat generating equipment, repairs any faults that may occur;
- Performs connecting and configuration tasks of hydraulic adjustment and control engineering;
- Liaises with the customer, proposing technological solutions with regard to energy efficiency and economy;
- Advises the customer on the selection of heat generating/heat supply equipment and options;
- Delivers his or her work area in a tidy and clean condition. Treats the waste and debris generated in accordance with the relevant legislation.

4. CLASSIFICATION OF THE VOCATIONAL TRAINING ACCORDING TO THE ISCED FIELDS OF EDUCATION AND TRAINING (ISCED-F)

0713 Energetics and electricity

(*) Explanatory notes:

¹ In the original language. | ² The translation of the designation is provided for information purposes only. | ³ Fill it out if necessary. The certificate supplement provides additional information on the qualification but have no legal value in itself. The format of the description is in conformity with Decision (EU) 2018/646 of the European Parliament and of the Council of 18 April 2018 on a common framework for the provision of better services for skills and qualifications (Europass) and repealing Decision No 2241/2004/EC.

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5. OFFICIAL BASIS OF THE CERTIFICATE

<p>Name and status of the authority issuing the certificate</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate</p> <p>Ministry for Innovation and Technology</p>															
<p>Level of the certificate (national or international)</p> <p>NQF level: 4</p> <p>EQF level: 4</p> <p>Digital Competence Framework level: 5</p>	<p>Grading scale / Pass requirements</p> <p>Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail</p>															
<p>Certificate number: CXK A</p> <p>Serial number: 123456</p> <p>Certificate issue date: 2024.05.24</p>	<p>Designation of the theoretical and practical subjects of the vocational qualification examination and their grades according to a five-grade scale</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3">written</td> </tr> <tr> <td>Theoretical knowledge of heat generating equipment</td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> <tr> <td colspan="3">project exercise</td> </tr> <tr> <td>Practical exam for gas and heat producing equipment mechanic, Installation of heat producing equipment in practice</td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Result of the qualification examination</td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> </table>	written			Theoretical knowledge of heat generating equipment	100%	5	project exercise			Practical exam for gas and heat producing equipment mechanic, Installation of heat producing equipment in practice	100%	5	Result of the qualification examination	100%	5
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<p>Access to next level of education/training</p>	<p>International agreements</p>															
<p>Other information concerning the vocational training process</p>																
<p>Legal basis</p> <p>Government Decree 12/2020 (II. 7.) on the Implementation of the Vocational Education and Training Act, Government Decree 319/2020 (VII. 1.) on the amendment of Government Decree 12/2020 (II. 7.) on the Implementation of the Vocational Education and Training Act, Government Decree 95/2021 (II. 27.) on the Amendment of Certain Government Decrees Relating to Vocational Education and Training and Adult Training, Government Decree 11/2020 (II. 7.) on the Implementation of the Act on Adult Education, Act LXXX of 2019 on Vocational Education and Training.</p>																

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

Description of the sectoral basic training and the theoretical and practical vocational training	Distribution of programme elements in percentage
Total duration of the education/training	400 hours

Entry requirements:

- Professional prerequisite: District heating and natural gas system technician (4 0732 07 03) or Building mechanical technician 5 0732 07 01 or (District heating and natural gas system technician 34 582 09) or (Building mechanical technician 54 582 01)
- Educational prerequisite: secondary education
- medical fitness requirements must be met

Further information:

WRITTEN EXAMINATION EXERCISES

Test (topics: Knowledge of heat-generating equipment; Knowledge of renewable energy recovery; Knowledge of occupational safety rules, regulations, protective equipment, special occupational safety knowledge; Knowledge of the technical characteristics in the technological instructions and specifications of the equipment/product/assembly; Performing calculations and knowledge of thermodynamics/thermal engineering, electrotechnical, control engineering, hydraulic adjustment)

PROJECT EXERCISES

- The test task is to carry out maintenance, diagnostics and verification of a general gas-fired and/or other heat producing equipment pre-installed on a mounting wall
- Preparation of a repair plan, cost implications and estimates
- Correcting faults, replacing and repairing any fittings
- In the course of the task, the candidate carries out the additional pipework, electronic measurements, and checks contact protection requirements
- In the performance of the task, he or she performs the steps to ensure compliance with the operability, energy efficiency, operational safety, life and property safety regulations of the heat producing equipment
- Checks the flue gas removal and the air supply of the heat producing equipment
- Completes documents and protocols related to the work processes
- Provides advice to users on environmentally friendly and energy efficient operation
- The examinee demonstrates his or her well-founded electrical engineering knowledge and competence in the use of instruments, e.g. by instrument troubleshooting and status checks

You can find more information on the Programme and System Requirements in the following link: <https://ikk.hu>

This certificate supplement was elaborated in accordance with the programme requirements registered by the minister responsible for VET.

National Reference Point: National Office of Vocational Education and Training and Adult Learning: <https://nrk.nive.hu>

Head of Examination Organiser:

Issue date: 2024.05.24

SEAL