

**1. TITLE OF THE PROFESSION**

07133020 Kazángépész (12 t/h felett)

2. TRANSLATED TITLE OF THE PROFESSIONBoiler mechanic (over 12 t/h)
(THIS TRANSLATION HAS NO LEGAL STATUS)**3. PROFILE OF SKILLS AND COMPETENCES**

- operates and supervises industrial boilers and auxiliary equipment with a mass flow of over 12 t/h and a capacity of over 7200 kW (typically 21 MW or more);
- it is his/her task to prepare, start and continuously operate the boiler and the technological systems supplying the boiler, as well as to operate the technological systems and thermal equipment supplied by the boiler in an efficient, reliable and on-demand basis;
- checks and monitors the operating parameters in the course of his/her work;
- carries out necessary intervention according to his/her level of competence;
- carries out necessary intervention according to his/her level of competence;
- records the required operational documents;
- is able to operate up-to-date, process-controlled, automated combustion systems and to carry out digital operating logging based on his/her IT skills;
- carries out the control of building surveillance systems and safety equipment within the scope of his/her entitlement, and the management of hazardous substances, waste and by-products in accordance with the regulations;
- assesses the properties and hazards of the operated equipment on the basis of a data sheet;
- prepares the fuels for use, checks their temporary storage, checks instruments determining fuel quality, and keeps the service logbook;
- in the event of an unsuccessful start-up, checks the latch conditions, notifies the parties concerned if necessary and takes action for troubleshooting;
- uses personal protective equipment, chooses the protective tools required for the given workflow.

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

Name and status of the authority issuing the certificate	Name and status of the national/regional authority providing accreditation/recognition of the certificate Ministry for Innovation and Technology															
Level of the certificate (national or international) NQF level: 3 EQF level: 3 Digital Competence Framework level: 3	Grading scale / Pass requirements Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail															
Certificate number: CXK A Serial number: 123456 Certificate issue date: 2023.12.13	Designation of the theoretical and practical subjects of the vocational qualification examination and their grades according to a five-grade scale <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td colspan="3">written</td> </tr> <tr> <td style="width: 80%;">Boiler engineering knowledge</td> <td style="width: 10%; text-align: center;">100%</td> <td style="width: 10%; text-align: center;">5</td> </tr> <tr> <td colspan="3">project exercise</td> </tr> <tr> <td>Boiler engineering practical tasks</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			Boiler engineering knowledge	100%	5	project exercise			Boiler engineering practical tasks	100%	5	Result of the qualification examination	100%	5
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Access to next level of education/training To secondary education	International agreements															
Other information concerning the vocational training process																
Legal basis 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.																

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	300 hours

Entry requirements:

- Educational prerequisite: elementary education
- Medical fitness requirements must be met

Further information:

WRITTEN EXAMINATION EXERCISES

Word problems (identification of appliances, technical vocabulary, interpretation of diagrams)

Test questions on material, equipment and system knowledge

Test questions on labour safety, fire safety and environmental protection

Calculation tasks on the determination of water hardness and gas composition

Using IT applications, recording data, reading instruments

PROJECT EXERCISES

Interpreting the task, indentifying installations

Checking the conditions necessary to perform the task

Selecting and marking the tools and instruments necessary to perform the task

Professional operation of the machine, assembly, or appliance

Carrying out the inspection, installation or start-up/shutdown task

Professional use of tools and/or measuring instruments

Accurate reading and interpretation of measurement and operational data

Compliance with work, fire, and environmental protection rules

Selection and use of personal protective equipment

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: 2023.12.13

SEAL