

**1. TITLE OF THE PROFESSION**

07133003 Ipari olaj- és gáztüzelő-berendezés kezelő

**2. TRANSLATED TITLE OF THE PROFESSION**Industrial oil and gas fired equipment operator  
(THIS TRANSLATION HAS NO LEGAL STATUS)**3. PROFILE OF SKILLS AND COMPETENCES**

- Uses the operating and maintenance instructions for the equipment, reads and interprets the wiring diagrams, operating schemes, list and names of fittings. Evaluates the characteristics and hazards of the equipment being operated on the basis of the equipment data table;
- Assesses the materials and tools needed for operation. Selects the tools needed for daily (operation) maintenance. If necessary, checks and identifies the technical characteristics of the materials used, using IT tools (e.g. Internet database);
- Checks the operation and sealing of pipes, pipe fittings, flexible couplings, and, with the authority of the operator, troubleshoots and replaces parts. Checks gas tightness, operates tightness control system. Checks the technical condition and operational capability of pumps, fans, control devices and the combustion plant and its associated systems to the extent required by the operating or maintenance instructions. Liaises and communicates with shift supervisors, maintenance staff as required Translated with DeepL.com (free version);
- Assesses and checks the fulfilment of the operating conditions of the interlocks and the feasibility of safe commissioning. Energises the operating systems. Checks the control instruments and devices of the combustion installations;
- Uses pressure, temperature and volume measuring instruments, reads, interprets and evaluates the data of instruments. Also records and logs data in a computer database or spreadsheet used in the plant;
- For systems with process control, uses the control panel interface, checks and sets operating steps, assesses and evaluates information from display instruments. In the case of controlled combustion installations, checks and adjusts, with the appropriate authority, the status and technical values of the electrical or pneumatic auxiliary power supply operating the control system. Checks the functionality, default settings and safety of regulators without auxiliary power, in particular pressure regulating systems. Checks the ignition system of combustion plants;
- Checks and commissions the oil storage and heating equipment of oil-fired installations. Manages the daily oil tank. In the case of gas-fired installations, checks the operation of the central gas supply and the gas pressure required for operation;
- Checks and adjusts the oil supply system. Heats oil to the correct temperature; reads and logs temperature data;
- Starts and operates the oil pump, checks the oil pressure;
- Lights the oil burner of the oil-fired equipment. Continuously operates the combustion plant and the associated fittings and systems;
- Carries out the start-up protocol for gas boilers: energising the gas burner, checking the gas supply system, checking the gas burner start-up safety time. Starts and operates the fans, gas burner, operates the gas firing system continuously;
- Constantly monitors the flame image and carries out the intervention within his or her authority. Monitors the temperature and composition of the flue gas during operation. Uses control devices and instruments built into the process;
- Operates equipment, and boilers associated with the combustion system. Checks pressure and temperature values, water level in boilers and water composition and hardness. Discharges LPG and fills tanks in the plant gas storage. Manages the gas receiving station;
- Documents the operation of the business in the required format, manages the IT tools and programmes at his or her disposal. Records the operational data in the computer database or spreadsheet used in the plant. Measures and documents accounting data;
- Operates and supervises the technological systems in his or her area of work, and monitors their safe operation. Liaises and communicates professionally with raw material supply and thermal energy user units, safety service, shift supervisor. If necessary, notifies the parties concerned and takes measures to rectify faults;
- In case of emergency or planned shutdown, safely shuts down equipment, cuts off fuel supply, disconnects power, operates safety systems;
- Supervises the central fire protection system, equipment and installations of the fuel storage. Checks the usability and technical condition of the fire-fighting equipment on the premises;
- Checks the operational capability of the alarm systems in accordance with the technological instructions: if necessary, takes measures to adjust, repair or replace the sensors within his or her authority;
- Uses personal protective equipment. Selects the protective equipment required for the given work process.

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

0713 Energetics and electricity

**(\*) Explanatory notes:**

<sup>1</sup> In the original language. | <sup>2</sup> The translation of the designation is provided for information purposes only. | <sup>3</sup> 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

<b>Name and status of the authority issuing the certificate</b>	<b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b>  Ministry for Innovation and Technology																		
<b>Level of the certificate (national or international)</b>  NQF level: 3  EQF level: 3  Digital Competence Framework level: 3	<b>Grading scale / Pass requirements</b>  Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail																		
Certificate number: CXK A  Serial number: 123456  Certificate issue date:  <b>2024.10.11</b>	<b>Designation of the theoretical and practical subjects of the vocational qualification examination and their grades according to a five-grade scale</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td colspan="3"><b>written</b></td> </tr> <tr> <td style="width: 80%;">Knowledge of industrial oil and gas fired equipment operation</td> <td style="width: 10%; text-align: center;">100%</td> <td style="width: 10%; text-align: center;">5</td> </tr> <tr> <td colspan="3"><b>project exercise</b></td> </tr> <tr> <td>Handling industrial oil and gas fired equipment</td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> <tr> <td colspan="3">Result of the qualification examination</td> </tr> <tr> <td></td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> </table>	<b>written</b>			Knowledge of industrial oil and gas fired equipment operation	100%	5	<b>project exercise</b>			Handling industrial oil and gas fired equipment	100%	5	Result of the qualification examination				100%	5
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<b>Access to next level of education/training</b>	<b>International agreements</b>																		
<b>Other information concerning the vocational training process</b>																			
<b>Legal basis</b>  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.																			

## 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	120 hours

### Entry requirements:

- Educational prerequisite: primary education
- Medical fitness test: required

### Further information:

#### WRITTEN EXAMINATION EXERCISES

The written test consists of text and test tasks, as well as simple mechanical diagram and flowchart analysis exercises. The aim of the tasks is to measure and assess, in a computer environment, the candidate's knowledge and skills in basic physics and chemistry, measuring instruments, the use of machinery, apparatus and systems in the field, and practical learning results in the use of tools related to safety and environmental protection.

#### PROJECT EXERCISES

The project task is a practical exam. It aims to measure and assess the learning outcomes achieved in the operation of industrial oil and gas firing equipment, associated assemblies, instrumentation and service systems. The tasks will include the following practical activities, depending on the technical conditions of the test site:

- Identification of pipe fittings and volume measuring instruments in piping networks, checking for tightness, operation of oil drainage and storage systems, starting and stopping dosing pumps, checking their operation. Carrying out safety and health tasks related to the transport of materials, using protective equipment.
- Identification and demonstration of the components of a combustion appliance, inspection of the combustion appliance instruments and interlocking system. Start-up safety time check on gas burner. Fan start-up, checking excess air setting. Carrying out safety and health tasks related to combustion equipment, use of protective equipment.
- Pressure, temperature and volume measurement tasks. Checking the installation and functionality of instruments. Recording of measurement data in a conventional operating logbook or in the user interface of a process control and recording system.
- Checking the operating status of the gas receiving and measuring station, determining the pressure and the quantity of gas. Performing health and safety tasks related to the control and management of the gas receiving station, using protective equipment.
- Identification of the structural elements of an industrial dryer, oven or heat exchanger, description of the installation of the equipment, identification of its operating condition, list of typical maintenance tasks, selection and description of the tools required for maintenance. Carrying out pressure gauge replacement, with the use of exclusion fittings. Use of personal protective equipment.
- Checking regulators, feeders, mixers without auxiliary energy, determining the operating range of pressure limiters, checking pressure and temperature switches. Performing safety measurements with gas detectors. Checking the operability of safety fittings, determining the discharge pressure and official validity on the basis of a data table. Carrying out health and safety tasks related to the control and handling of regulators and safety fittings, using 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: 2024.10.11

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