

**1. TITLE OF THE PROFESSION**

07134011 Villamos hálózat kezelő

**2. TRANSLATED TITLE OF THE PROFESSION**Electrical network operator  
(THIS TRANSLATION HAS NO LEGAL STATUS)**3. PROFILE OF SKILLS AND COMPETENCES**

- performs operational tasks with sufficient local knowledge for small, medium and high voltage overhead line and cable-based distribution grids, medium/low voltage transformer stations and medium voltage switching stations and small power plants that do not require a licence that were established for production, transmission, distribution and consumption in the electricity system;
- main operational tasks: status monitoring, execution and supervision of scheduled (operational, construction or demolition) or malfunction interventions and provision of a voltage-free work area for said purposes;
- performs risk analysis, deliberation and decision-making through their work, in observance of the the relevant electrical safety, occupational, fire, environmental and health regulations;
- throughout the performance of the tasks they are responsible for, prepares and maintains electronic and paper-based documentation (e.g. entry declarations, operating logs, switching, de-energizing and re-energizing instructions, work area delivery-acceptance documentation) with due care;
- throughout their work uses the use work tools, machines, equipment, tools, personal and group protective equipment according to regulations;
- conducts clear, unambiguous, instruction-based communication through the available communication channels with the operation control service;
- in an emergency, performs technical rescue and first aid;
- works with a partner or in a work group, organises and oversees work as a supervisor, cooperates as a member of a work group and follows the instructions of the supervisor;
- communicates with the users in the course of their work, providing clear, unambiguous information on the work to be done/completed work.

**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: 4  EQF level: 4  Digital Competence Framework level: 5	<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: 2024.01.08	<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%;">Basic electrical network operation 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"><b>project exercise</b></td> </tr> <tr> <td>Operation of electrical network</td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> <tr> <td>A) Connections exercise</td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> <tr> <td>B) Simulation exercise</td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> <tr> <td>C) Presentation of training portfolio</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>	<b>written</b>			Basic electrical network operation knowledge	100%	5	<b>project exercise</b>			Operation of electrical network	100%	5	A) Connections exercise	100%	5	B) Simulation exercise	100%	5	C) Presentation of training portfolio	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>  The scope of activities of the electrical network operator extends to the elements that provide for the transport, distribution and use of electricity within the electrical equipment, as well as to small power plants that do not require a permit; therefore it does not extend to high voltage switching stations, high/high voltage, high/medium voltage, medium/medium voltage transformer stations and power plants with combined small power plant licenses and producer operating licenses.																									
<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.																									

## 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 attainment: primary education
- Professional qualifications: 625 Electrician, 503 Electrician, 505 Branches of electrician, 505-1 Electrical engineer, 505-2 Building electrician, 505-3 Railway electrician, 505-4 Electrical network technician, 506 General electrician, 07 2 7624 02 31 17 Electrician, 33 5216 03 Electrician, 33 522 04 1000 00 00 Electrician, 34 522 04 Electrician, 33 5222 03 Electrician and device mechanic, 4 0713 04 07 Electrician, 52 5422 01 Electrotechnical technician, 52 5422 02 High-current electronics technician, 52 5422 03 Electrical machinery and equipment technician, 07 5 3118 16 30 18 Electrical machinery and equipment technician, 54 522 01 0000 00 00 High-current electrical technician, certificate of secondary vocational education with the following entry: qualifies for the performance of electrical engineers works, 54 522 01 High-current electrical technician, 5 0713 04 04 High-current electrical technician, Electrical engineer (BsC, MsC), in the case of those who graduated from electrical plant engineer major, if: - the certificate lists one of the following specializations (specialty): - electrical engineering; - electrical machinery; - electrical energy; - building electrification
- Medical fitness requirement: occupational health fitness
- Area and duration of professional experience: no less than 2 years of high-current professional experience

### Further information:

#### WRITTEN EXAMINATION EXERCISES

Test questions (familiarity with the MSZ 1585 standard; preparation of a switching sequence; instructions for de-energizing and energizing switching; general characteristics of electrical networks by voltage level; special characteristics of electrical networks; characteristics of small power plants that do not require a permit; calculation task)

#### PROJECT EXERCISES

preparation of switching, de-energizing and energizing instructions  
establishing voltage-free working area for the replacement of medium-voltage column switches, the diagnostics of medium-voltage circuit switching equipment, the adjustment of the moulding of medium/low-voltage transformer stations and the wiring control of medium-voltage overhead line networks  
on-site supervision, transmission/receipt of service, work area delivery/acceptance  
preparation of a self-drawn outline, summarising connections

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: 2024.01.08

SEAL