

**1. TITLE OF THE PROFESSION**

4 0713 04 07 Villanyszerelő (Villamos készülék és berendezés szakmairány)

2. TRANSLATED TITLE OF THE PROFESSIONElectrician (Electrical apparatus and equipment specialisation)
(THIS TRANSLATION HAS NO LEGAL STATUS)**3. PROFILE OF SKILLS AND COMPETENCES**

- make electrical and mechanical joints, install flush-mounted and external electrical installations and fixtures on the basis of digital and paper-based documentation;
- install photovoltaic equipment based on documentation;
- install connecting lines to residential buildings, design and install metering points;
- establish cable connections for pieces of equipment and prepare implementation documentation;
- make cable connections and cable termination on low voltage cables;
- install and connect electrical machines, transformers and rotating electrical machines;
- select the switching device, connect it, set its operating parameters and control it;
- install and commission industrial distribution equipment in accordance with drawings and in compliance with the electric shock protection and safety technology requirements;
- install engine control equipment and frequency converters according to the technical specifications;
- carry out pre-commissioning and operational tests of electrical machines and industrial distribution systems on the basis of documentation.

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE7341 Technician and mechanic of electrical equipment and devices
7343 Electrical power-line installer and repairer**(*) 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>The prerequisite of being eligible to sit for a sectoral basic examination is the successful completion of all the required training courses, or the recognised prior learning should incorporate the requirements of the sectoral basic examination. The prerequisite of being eligible to sit for a vocational examination is the successful completion of all the training courses and the uninterrupted professional practice required. In case the student is required to pass a sectoral basic examination, latter shall be recognised with the following weighting: The result of the basic sectoral examination will be computed into that of the vocational examination with the following weighting: Sectoral basic examination: 20%, Vocational examination: 80%</p>																												
<p>Certificate number: CXK A</p> <p>Serial number: 123456</p> <p>Certificate issue date: 2023.12.07</p>	<p>Designation of the theoretical and practical subjects of the sectoral basic examination and the vocational examination and their grades according to a five-grade scale</p> <p>Sectoral basic examination : The examination was passed based on recognised prior learning</p> <p>Vocational examination</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">central interactive</td> </tr> <tr> <td>Basics of electrical fitting</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Examination Part I: Component and material knowledge</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Examination Part II: Technological knowledge</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Examination Part III: Calculation tasks</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Examination Part IV: Electrical safety knowledge</td> <td style="text-align: center;">5</td> </tr> <tr> <td colspan="2">project exercise</td> </tr> <tr> <td>Examination Part I – A) Portfolio preparation</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Examination Part I – B) Presentation of the portfolio</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Examination Part II: Based on the technical documentation, carry out the control and installation of an electrical machine or appliance. Perform and document electrical measurements on the equipment.</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Examination Part III: Installation of a single-phase direct metre based on paper or digital documentation</td> <td style="text-align: center;">5</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>Result of the vocational examination in percentage</td> <td style="text-align: center;">100%</td> </tr> <tr> <td>Result of the vocational examination with grades</td> <td style="text-align: center;">5</td> </tr> </table>	central interactive		Basics of electrical fitting	5	Examination Part I: Component and material knowledge	5	Examination Part II: Technological knowledge	5	Examination Part III: Calculation tasks	5	Examination Part IV: Electrical safety knowledge	5	project exercise		Examination Part I – A) Portfolio preparation	5	Examination Part I – B) Presentation of the portfolio	5	Examination Part II: Based on the technical documentation, carry out the control and installation of an electrical machine or appliance. Perform and document electrical measurements on the equipment.	5	Examination Part III: Installation of a single-phase direct metre based on paper or digital documentation	5			Result of the vocational examination in percentage	100%	Result of the vocational examination with grades	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, 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 the total number of hours of the programme
Total duration of the education/training	3 years

Entry requirements:

- Educational prerequisite: primary education
- Occupational health aptitude test: required

Further information:

VOCATIONAL PRACTICAL SUBJECT	HOURS
Basic electrical knowledge	12 hour
Basic mechanical engineering knowledge	12 hour
Electrical engineering	12 hour
Industrial electronics	12 hour
Electrical documentation	12 hour
Electrical safety engineering	12 hour
Labour safety	12 hour
Building electricity I	12 hour
Electrical apparatus and equipment I	12 hour
Electrical apparatus and equipment II	12 hour
Electric networks I	12 hour
VOCATIONAL THEORETICAL SUBJECT	HOURS
Vocational knowledge	12 hour
Vocational foreign language knowledge	12 hour
Basic electrical knowledge	12 hour
Basic mechanical engineering knowledge	12 hour
Electrical engineering	12 hour
Industrial electronics	12 hour
Electrical documentation	12 hour
Electrical safety engineering	12 hour
Labour safety	12 hour
Building electricity I	12 hour
Electrical apparatus and equipment I	12 hour
Electrical apparatus and equipment II	12 hour
Electric networks I	12 hour
Continuous field practice	160 hour
Altogether	448 hour

Link to the Programme and Outcome Requirements and the Programme Curriculum: <https://ikk.hu>

The present certificate supplement was elaborated in compliance with Government Decree 12/2020 (II. 7.) on the implementation of the Act on Vocational Education and Training.

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

Head of Examination Organiser:
Issue date: 2023.12.07

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