



1. TITLE OF THE PROFESSION

5 0713 04 04 Erősáramú elektrotechnikus

2. TRANSLATED TITLE OF THE PROFESSION

Heavy current electrical technician
(THIS TRANSLATION HAS NO LEGAL STATUS)

3. PROFILE OF SKILLS AND COMPETENCES

A typical holder of the certificate is able to:

- run the organisation's energy network and monitor electricity management;
- manage reactive power and size simple low-voltage network cables;
- manage, assemble and operate the control and drive installations used;
- know the electrical installations, power systems, substations, protection systems and transform them, when necessary;
- know the characteristics of the electrical machinery used, troubleshoot and carry out repairs, when needed;
- perform measurements related to electricity management, select and install the necessary measuring instruments, record the results of the measurements, prepare the necessary documents;
- know and apply instruments and the principles of electrical measurement, and comply with electrical safety regulations;
- prepare the technical drawings required for his/her work using a computer;
- be receptive to seeking new solutions and be open to new technological solutions;
- identify risks and hazards and minimise the risks arising from electricity.

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE

3121 Electrical (power current) engineering technician
3122 Electronics (light current) engineering technician

(*) 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 has 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: 5 EQF level: 5 Digital Competence Framework level: 7	Grading scale / Pass requirements Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail The successful completion of all the required training courses is a prerequisite for admission to the sectoral basic examination. The successful completion of all the required training courses and the continuous field practice is a prerequisite for admission to the vocational examination. 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%																
Certificate number: CXK A Serial number: 123456 Certificate issue date: 2021.10.22	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 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 80%;">Sectoral basic examination</td> <td style="width: 20%; text-align: center;">passed</td> </tr> <tr> <td>Vocational examination</td> <td></td> </tr> <tr> <td>central interactive</td> <td></td> </tr> <tr> <td>Electrical industry knowledge</td> <td style="text-align: center;">5</td> </tr> <tr> <td>project exercise</td> <td></td> </tr> <tr> <td>Electrical engineering practice</td> <td style="text-align: center;">5</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>	Sectoral basic examination	passed	Vocational examination		central interactive		Electrical industry knowledge	5	project exercise		Electrical engineering practice	5	Result of the vocational examination in percentage	100%	Result of the vocational examination with grades	5
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Access to next level of education/training To higher 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.																	

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE SUPPLEMENT

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	2104 hours																																																																		
<p>Entry requirements:</p> <ul style="list-style-type: none"> - Elementary school qualification - Occupational aptitude test is required <p>Further information:</p> <table border="0"> <thead> <tr> <th>VOCATIONAL PRACTICAL SUBJECT</th> <th>HOURS</th> </tr> </thead> <tbody> <tr><td>Basic electrical knowledge</td><td>12 hour</td></tr> <tr><td>Basic mechanical engineering knowledge</td><td>12 hour</td></tr> <tr><td>Electrical engineering</td><td>12 hour</td></tr> <tr><td>Electronics</td><td>12 hour</td></tr> <tr><td>Electrical technical documentation</td><td>12 hour</td></tr> <tr><td>Control engineering</td><td>12 hour</td></tr> <tr><td>Basics of PLC (Programmable Logic Controller)</td><td>12 hour</td></tr> <tr><td>Electric network of buildings</td><td>12 hour</td></tr> <tr><td>Electricity works</td><td>12 hour</td></tr> <tr><td>Electrical machinery</td><td>12 hour</td></tr> <tr><td>Electrical installations</td><td>12 hour</td></tr> <tr><td>Electrical safety engineering</td><td>12 hour</td></tr> <tr><td colspan="2"> </td></tr> <tr> <th>VOCATIONAL THEORETICAL SUBJECT</th> <th>HOURS</th> </tr> <tr><td>Vocational knowledge</td><td>12 hour</td></tr> <tr><td>Vocational foreign language knowledge</td><td>12 hour</td></tr> <tr><td>Basic electrical knowledge</td><td>12 hour</td></tr> <tr><td>Basic mechanical engineering knowledge</td><td>12 hour</td></tr> <tr><td>Electrical engineering</td><td>12 hour</td></tr> <tr><td>Electronics</td><td>12 hour</td></tr> <tr><td>Technical drawing</td><td>12 hour</td></tr> <tr><td>Electrical technical documentation</td><td>12 hour</td></tr> <tr><td>Control engineering</td><td>12 hour</td></tr> <tr><td>Basics of PLC (Programmable Logic Controller)</td><td>12 hour</td></tr> <tr><td>Electric network of buildings</td><td>12 hour</td></tr> <tr><td>Electricity works</td><td>12 hour</td></tr> <tr><td>Electrical machinery</td><td>12 hour</td></tr> <tr><td>Electrical installations</td><td>12 hour</td></tr> <tr><td>Labour safety</td><td>12 hour</td></tr> <tr><td>Electrical safety engineering</td><td>12 hour</td></tr> <tr><td>Continuous field practice</td><td>160 hour</td></tr> <tr><td>Altogether</td><td>496 hour</td></tr> </tbody> </table> <p>Link to the Training and Outcome Requirements and the Programme Plans: https://ikk.hu The present diploma supplement was elaborated in compliance with Government Decree 12/2020 (II. 7.) on the implementation of the Act on Vocational Education and Training.</p> <p>National Reference Point: National Office of Vocational Education and Training and Adult Learning: https://nrk.nive.hu</p>		VOCATIONAL PRACTICAL SUBJECT	HOURS	Basic electrical knowledge	12 hour	Basic mechanical engineering knowledge	12 hour	Electrical engineering	12 hour	Electronics	12 hour	Electrical technical documentation	12 hour	Control engineering	12 hour	Basics of PLC (Programmable Logic Controller)	12 hour	Electric network of buildings	12 hour	Electricity works	12 hour	Electrical machinery	12 hour	Electrical installations	12 hour	Electrical safety engineering	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	Electronics	12 hour	Technical drawing	12 hour	Electrical technical documentation	12 hour	Control engineering	12 hour	Basics of PLC (Programmable Logic Controller)	12 hour	Electric network of buildings	12 hour	Electricity works	12 hour	Electrical machinery	12 hour	Electrical installations	12 hour	Labour safety	12 hour	Electrical safety engineering	12 hour	Continuous field practice	160 hour	Altogether	496 hour
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