



## 1. TITLE OF THE CERTIFICATE (HU)

54-523-02 Elektronikai technikus

## 2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Electro-technician

(THIS TRANSLATION HAS NO LEGAL STATUS)

## 3. PROFILE OF SKILLS AND COMPETENCES

**A typical holder of the certificate is able to:**

- perform electro-technical and electronic calculations;
- understand electrical connections;
- perform electrical measurements;
- prepare measurement protocols;
- activate circuits, check circuit operation and carry out repairs;
- construct and install electrical circuits;
- charge the circuit;
- operate and maintain industrial manufacturing systems;
- perform and coordinate instrument-based troubleshooting;
- verify circuit operation using measurements;
- program control systems;
- write PLC programs, edit such programs in graphical and test-based program languages;
- use micro-controllers (PIC);
- operate mechatronic systems;
- install, configure and use electronic design software;
- implement and check the operation of electro-mechanic controls;
- implement, install and activate engine controls (engine protection, starting, reversal switches, rpm changing connections);
- manage and operate electronic controls;
- use and operate remote controls;
- perform and supervise maintenance works as per the maintenance instructions;
- document operating and maintenance works.

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

3121 Electrical power technician (energy technician)  
3190 Other technician  
7341 Technician and mechanic of electric machines and devices  
3122 Electrical power technician (electronics technician)

### (\*) Explanatory notes:

This document is designed to provide additional information about the specified certificate and does not serve as a legal certificate of vocational qualification. The format of the description is based on the following documents:

Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications; Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers.

More information on transparency is available at: <http://europass.cedefop.europa.eu/>

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## 5. OFFICIAL BASIS OF THE CERTIFICATE

<p><b>Name and status of the institute issuing the certificate</b></p>	<p><b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b></p> <p>Ministry for National Economy</p>																
<p><b>Level of the certificate (national or international)</b></p> <p><b>Level of vocational qualification according to the National Qualification Register:</b> 54 advanced vocational qualifications, which require the completion of the secondary school leaving exam and may be obtained primarily in formal education</p> <p><b>ISCED2011 code:</b> 4</p> <p><b>NQF level:</b> 4</p> <p><b>EQF level:</b> 4</p>	<p><b>Grading scale / Pass requirements</b></p> <p>Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail</p>																
<p><b>Certificate number: PT K</b></p> <p>Serial number: 123456</p> <p><b>Certificate issue date: 2021.07.21</b></p>	<p><b>Results achieved at the examination and their proportion expressed in percentage in the complex mark</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Central written examination</td> <td style="width: 30%;">Professional know-how</td> <td style="width: 10%;">5</td> <td style="width: 40%;">30.00</td> </tr> <tr> <td>Oral examination</td> <td>Professional know-how</td> <td>5</td> <td>20.00</td> </tr> <tr> <td>Practical examination</td> <td>Circuit installation</td> <td>5</td> <td>50.00</td> </tr> <tr> <td colspan="2">Result achieved at the complex vocational examination, expressed in grades.</td> <td>5</td> <td></td> </tr> </table>	Central written examination	Professional know-how	5	30.00	Oral examination	Professional know-how	5	20.00	Practical examination	Circuit installation	5	50.00	Result achieved at the complex vocational examination, expressed in grades.		5	
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<p><b>Access to next level of education/training</b></p> <p>To higher education</p>	<p><b>International agreements</b></p>																
<p><b>Other information concerning the vocational training process</b></p>																	
<p><b>Legal basis</b></p> <p>Act CLXXXVII of 2011 on Vocational Training Decree 29/2016 (VIII.26.) NGM of the Ministry for National Economy on the professional and examination criteria of vocational courses.</p>																	

## 6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

Description of vocational education and training received	Percentage of total programme %	Duration (hours/weeks/months/years)
School-/training centre-based	Theory: 40 % Practice: 60 %	
Workplace-based		
Accredited prior learning		
Total duration of the education/training leading to the certificate		2 years

**Entry requirements:**

- Secondary school leaving examination

**Vocational requirement modules:**

- 11499-12 Employment II.
- 10005-16 Basic tasks in the field of electrical industry
- 10013-16 Construction and operation of circuits
- 10003-16 Basics of control engineering
- 10014-16 Mechatronic systems
- 10007-16 Introduction to informatics and technology
- 11498-12 Employment I (for courses based on secondary school-leaving examination)
- 11500-12 Occupational health and safety
- 10015-12 Using computers in electronics

This certificate supplement was prepared on the basis of the instruction for filling in the Certificate Supplement published on the homepages of the National Reference Point and the National Europass Centre.

**National Reference Point – NSZFH – <http://nrk.nive.hu>**

Head of Examination Organiser:  
Issue date: 2021.07.21

**SEAL**