

**1. TITLE OF THE CERTIFICATE (HU)**

52 5422 02 ERŐSÁRAMÚ ELEKTRONIKAI TECHNIKUS

**2. TRANSLATED TITLE OF THE CERTIFICATE (EN)**HEAVY CURRENT ELECTRONIC TECHNICIAN  
(THIS TRANSLATION HAS NO LEGAL STATUS)**3. PROFILE OF SKILLS AND COMPETENCES****A typical holder of the certificate is able to:**

- independently or under the professional supervision of an engineer, take part in installing, maintaining and operating electricity-powered equipment for producing, delivering, distributing and consuming electric energy;
- install, repair and maintain automatic electric systems and protection equipment supervising and controlling heavy current electric equipment, machines and instruments involved in different technological processes;
- organise and supervise electricity-related fitting jobs in industrial facilities and other buildings, decide on appropriate ways of shock protection, check conformity with safety and shock protection related stipulations at the termination of fitting jobs, approve of the commissioning of electric devices;
- take part in developing and producing electric household appliances, electricity-powered machines and equipment as well as work in positions of assistant planner, designer and shift foreman after having obtained appropriate work experience;
- install, repair and maintain protection devices and remote action equipment operated as part of electric energy supply services;
- perform energy management related tasks of industrial facilities;
- use computers for simulation, PCB planning and calculations.

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

3118 Electrical (power current) engineering 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>In the case of vocational qualifications belonging to the competence of the Ministry of Education (ME), a vocational qualification-related independent professional committee commissioned by the ME</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> 52 Intermediate vocational qualification entitling the holder to fill positions requiring physical or intellectual work, which is based on the input competence determined in the vocational and examination requirements, on preliminary vocational qualification or on the baccalaureate.</p> <p><b>ISCED97 code:</b> 4CV</p>	<p><b>Grading scale / Pass requirements</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Five -grade:</td> <td style="width: 10%; text-align: center;">5</td> <td style="width: 75%;">excellent</td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> <td>good</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td>satisfactory</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td>pass</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td>fail</td> </tr> </table> <p>Vocational qualification examination after the completion of vocational training</p> <p>Parts of the examination: - Vocational theory - Vocational practice</p> <p>A successful vocational qualification examination requires a pass grade both in vocational theory and practice.</p>	Five -grade:	5	excellent		4	good		3	satisfactory		2	pass		1	fail									
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<p><b>Certificate number:</b> PT K</p> <p><b>Serial number:</b> 123456</p> <p><b>Certificate issue date:</b> 2023.09.14</p>	<p><b>Description of vocational theoretical and practical subjects and their grades according to the five-grade scale</b></p> <p><b>1. Grades of vocational theoretical examination subjects</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Topics/subjects of written examination</td> </tr> <tr> <td style="width: 80%;">Industrial Electronics</td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td>Power Currents</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Grade of Written Examination</td> <td style="text-align: center;">5</td> </tr> <tr> <td colspan="2">Topics/subjects of oral examination</td> </tr> <tr> <td>Industrial Electronics</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Power Currents</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Grade of Vocational Theory</td> <td style="text-align: center;">5</td> </tr> </table> <p><b>2. Assessment of vocational practical preparedness</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Subjects of practical examination</td> </tr> <tr> <td>Electrical Measurements</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Workshop Practice</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Grade of Vocational Practice</td> <td style="text-align: center;">5</td> </tr> </table>	Topics/subjects of written examination		Industrial Electronics	5	Power Currents	5	Grade of Written Examination	5	Topics/subjects of oral examination		Industrial Electronics	5	Power Currents	5	Grade of Vocational Theory	5	Subjects of practical examination		Electrical Measurements	5	Workshop Practice	5	Grade of Vocational Practice	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 LXXVI of 1993 on vocational training, Decree 27/2001 (VII. 27.) OM of the Minister of Education on the amendment of Decree 7/1993 (XII. 30.) MüM of the Minister of Labour on the National Qualifications Register, Decree 26/2001 (VII. 27.) OM of the Minister of Education on the general rules and rules of procedure of vocational examinations, Decree no. 50/1999. (IX.10.) GM of the Minister of Economic Affairs on the amendment of Decree no. 5/1997. (III.5.) IKIM of the Minister of Industry, Trade and Tourism on qualifications required for performing specific industrial, commercial and tourism related activities, Decree 20/1996. (III.28.) of the Minister of Industry and Trade (IKM) on vocational and examination requirements of Heavy current electronic technician, Central programme approved by the Minister of Labour (MüM) under approval number 4278/97. III. 23.</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: 70 % Practice: 30 %	
Workplace-based		
Accredited prior learning		
Total duration of the education/training leading to the certificate		2 years

**Entry requirements:**

- Baccalaureate

**Further information:**

**MANDATORY VOCATIONAL THEORETICAL SUBJECTS**

Occupational safety and environmental protection	100 hours
Basic studies in economics	100 hours
Study of materials	100 hours
Technical Drawing	100 hours
Electrical Engineering	100 hours
Electronics	100 hours
Applied Computer Technology 1	100 hours
Applied Computer Technology 2	100 hours
Mathematics for Technical Purposes	100 hours
Knowledge of Related Mechanical Engineering Issues	100 hours
Quality Assurance	100 hours
Industrial Electronics	100 hours
Electric Machines and Drives	100 hours
Electric Works and Automatic Systems Thereof	100 hours

**MANDATORY VOCATIONAL PRACTICAL SUBJECTS**

Basic Practical Training	100 hours
Practice in Electronics	100 hours
Practice in Heavy Current Measurements	100 hours
Workshop Practice	100 hours

**Further information (including the description of the national grading method):**

The basis of the grading system is a list of vocational and examination requirements compiled in accordance with uniform criteria and structure, issued in the form of legal regulation that includes the following:

- identification number and description of the vocational qualification as specified in OKJ and the relevant FEOR number,
- school and vocational prequalification required for the start of the training, aptitude and vocational competence requirements and prescribed practice,
- the most typical occupation or activity accessible to the holder of the vocational qualification certificate, the short job description, and the list of related vocational qualifications,
- the duration of the training required for the vocational qualification; maximum number of hours; the ratio of theoretical and practical training; the number of vocational training classes in the vocational training school; the duration of initial training period; the possibility of organising a grade examination assessing the efficiency of practical training,
- occupational requirements of vocational qualification,
- requirements pertaining to vocational examination.

The vocational and examination requirements will be classified by the occupational group committees of the National Qualification Register (OKJ) and by the National Council for Vocational Training, and subsequently they will be issued in the form of legal regulations.

Vocational and examination requirements are available at: <http://www.nive.hu>

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: 2023.09.14

**SEAL**