

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

52 5436 03 BÁNYAVILLAMOSSÁGI TECHNIKUS

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

- prepare, organise and supervise the installation, repair, maintenance of mine electrics networks and switching apparatuses;
- commission, operate, repair and maintain electrical devices and controls of mine equipment and conveyors;
- install, operate and maintain mine electrics measuring instruments;
- install, operate and repair remote transmission and remote monitoring equipment;
- install, inspect and repair the electric shock protection of mine related above-ground and electrics equipment;
- supervise the operation of electricity-powered drainage stations and equipment;
- operate and repair communication systems in mines;
- keep and update documentations of electrical systems;
- observe technological processes and continuously supervise the adherence thereto;
- check technical parameters of materials, auxiliary materials, machines and measuring instruments used during production;
- ensure proper supply of materials, indirect materials, machines, tools, devices, measuring instruments and the availability of power supply necessary for continuous operation;
- perform laboratory as well as machine room and measuring room tasks;
- co-operate with engineers in solving development related tasks and in performing test projects;
- independently perform simple organisational and planning related tasks .

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

3129 Other technicians

**(\*) 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%;">Electric Machines and Drives</td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td>Mine Electrics and the Mining Industry</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>Electric Machines and Drives</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Mine Electrics and the Mining Industry</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> <p>Subjects of practical examination</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Practice in Performing Electrical Fitting, Installation and Measuring Tasks</td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td>Fault Detection in Controlled and Supervised Systems</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Technical Measurements, Use of Instruments</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Installing Electro-Pneumatic or Electro-Hydraulic Systems Working From Block Diagrams or Descriptive Documentations</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		Electric Machines and Drives	5	Mine Electrics and the Mining Industry	5	Grade of Written Examination	5	Topics/subjects of oral examination		Electric Machines and Drives	5	Mine Electrics and the Mining Industry	5	Grade of Vocational Theory	5	Practice in Performing Electrical Fitting, Installation and Measuring Tasks	5	Fault Detection in Controlled and Supervised Systems	5	Technical Measurements, Use of Instruments	5	Installing Electro-Pneumatic or Electro-Hydraulic Systems Working From Block Diagrams or Descriptive Documentations	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, Central programme approved by the Minister of Labour (MüM) under approval number 3026/97. (III.23.), Decree 20/1996. (III.28.) of the Minister of Industry, Trade and Tourism (IKIM) on vocational and examination requirements of Mine electricians technician.</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:**

- bacalaureate

**Further information:**

**MANDATORY VOCATIONAL THEORETICAL SUBJECTS**

Occupational safety and environmental protection	100 hours
Labour Law, Enterprises and Management	100 hours
Foreign Language for Specific Purposes (English, German)	100 hours
Technical display	100 hours
Initial Education in CAD	100 hours
Knowledge of Materials and Production	100 hours
Mechanics	100 hours
Machine Elements	100 hours
Electrical Engineering	100 hours
Electrical Equipment and Networks for Mines	100 hours
Electric Machines and Drives	100 hours
Control technology	100 hours
Industrial Electronics	100 hours
Mechanics for Mines	100 hours
Mining	100 hours
Quality Assurance	100 hours
Related Practical Tasks	100 hours

**MANDATORY VOCATIONAL PRACTICAL SUBJECTS**

Technical Measurements	100 hours
Basic Practical Training	100 hours
Vocational training	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**