

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

52 5442 04 GÉPIPARI SZÁMÍTÁSTECHNIKAI TECHNIKUS

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

- take part in:
 - = computer-aided planning of manufacturing processes;
 - = modernization of established manufacturing processes relying on the application of related IT knowledge;
 - = development of the quality assurance system of the given product as well as the installation and operation of computer-aided systems of quality control;
 - = the analysis of problems arising during manufacture as well as in the identification and elimination thereof;
 - = qualification of products;
 - = development and introduction of new, modern technologies;
 - = modernization of products, machines and equipment;
 - = development, implementation and operation of the computerized data processing;
 - = design, implementation and operation of automated manufacturing systems.
- continuously monitor:
 - = the observance of technological processes;
 - = technical parameters and characteristics of materials, indirect materials, machines, equipment and measuring instruments used during manufacture;
 - = manufacturing processes in order to ensure that products meet requirements stipulated by manufacturers' liability act;
 - = availability of quality control related documentation in all fields of production and if necessary take actions to have these documents replaced.
- ensure adequate technical condition of machines, instruments and equipment under his/her supervision;
- ensure adequate supply of primary and indirect materials for uninterrupted operation, production and maintenance related activities;
- perform laboratory examination tasks, quality control and material testing related activities;
- carry out test runs, reveal and remove failures;
- program and operate NC, CNC machines;
- supervise automated systems;
- perform computer-aided supervision of manufacturing processes;
- take part in test and development projects.

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

3117 Machine industry computer technician, Material testing and quality assurance technician, Mechanical technician, Quality assurance technician for the metal industry, Machine engineering process technician, Machine designer technician

8192 NC, CNC machine operator; NC, CNC programming technologist

3132 PLC programmer

3139 Computer software operator

(*) 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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SAMPLE

5. OFFICIAL BASIS OF THE CERTIFICATE

<p>Name and status of the institute issuing the certificate</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate</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>Level of the certificate (national or international)</p> <p>Level of vocational qualification according to the National Qualification Register: 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>ISCED97 code: 4CV</p>	<p>Grading scale / Pass requirements</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>Certificate number: PT K</p> <p>Serial number: 123456</p> <p>Certificate issue date: 2023.09.14</p>	<p>Description of vocational theoretical and practical subjects and their grades according to the five-grade scale</p> <p>1. Grades of vocational theoretical examination subjects</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: left;">Topics/subjects of written examination</td> </tr> <tr> <td style="width: 60%;">Machine Design. Application of CAD and Design Software</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td>Production Design, CAD/CAM Applications</td> <td></td> <td style="text-align: center;">5</td> </tr> <tr> <td>Grade of Written Examination</td> <td></td> <td style="text-align: center;">5</td> </tr> <tr> <td colspan="3" style="text-align: left;">Topics/subjects of oral examination</td> </tr> <tr> <td>Complex I (IT, Mechanical Engineering, Quality Assurance, Control Technology, Automation, Electrical Machines and Equipment)</td> <td></td> <td style="text-align: center;">5</td> </tr> <tr> <td>Complex II (Characteristics of Materials and Production Processes, Engineering Processes, Entrepreneurial and Management Related Issues, Ergonomics and Environmental Protection)</td> <td></td> <td style="text-align: center;">5</td> </tr> <tr> <td>Grade of Vocational Theory</td> <td></td> <td style="text-align: center;">5</td> </tr> </table> <p>2. Assessment of vocational practical preparedness</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: left;">Subjects of practical examination</td> </tr> <tr> <td style="width: 60%;">Programming and Attendance of CNC Cutting Machines</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td>Quality Assurance, Technical Measurements</td> <td></td> <td style="text-align: center;">5</td> </tr> <tr> <td>Control Technology, Automation</td> <td></td> <td style="text-align: center;">5</td> </tr> <tr> <td>Grade of Vocational Practice</td> <td></td> <td style="text-align: center;">5</td> </tr> </table>	Topics/subjects of written examination			Machine Design. Application of CAD and Design Software		5	Production Design, CAD/CAM Applications		5	Grade of Written Examination		5	Topics/subjects of oral examination			Complex I (IT, Mechanical Engineering, Quality Assurance, Control Technology, Automation, Electrical Machines and Equipment)		5	Complex II (Characteristics of Materials and Production Processes, Engineering Processes, Entrepreneurial and Management Related Issues, Ergonomics and Environmental Protection)		5	Grade of Vocational Theory		5	Subjects of practical examination			Programming and Attendance of CNC Cutting Machines		5	Quality Assurance, Technical Measurements		5	Control Technology, Automation		5	Grade of Vocational Practice		5
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<p>Access to next level of education/training</p> <p>To higher education</p>	<p>International agreements</p>																																							
<p>Other information concerning the vocational training process</p>																																								

Legal basis

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 46/1997 (III.28.) of the Minister of Industry and Trade (IKM) on vocational and examination requirements of IT technician for the machine industry,
Central programme approved by the Minister of Labour (MüM) under approval number 3438/97 III. 23.

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
Descriptive Geometry	100 hours
Initial Education in Technical Drawing for Mechanical Engineering	100 hours
Initial Education in CAD	100 hours
Industrial Materials and Prefabricated Products	100 hours
Technical Mechanics	100 hours
Machine Elements	100 hours
Electrical machines	100 hours
Control technology	100 hours
Quality Assurance	100 hours
Machinery	100 hours
Planning of Operations	100 hours
Mechanical Measurements	100 hours
Technology	100 hours
Process Planning	100 hours

MANDATORY VOCATIONAL PRACTICAL SUBJECTS

Basic Measurements	100 hours
Basic Practice in the Field of Metallurgy	100 hours
Practice in the Field of Control Engineering	100 hours
Technology 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