

**1. TITLE OF THE PROFESSION**

5 0715 10 05 Gépésztechnikus (CAD-CAM szakmairány)

2. TRANSLATED TITLE OF THE PROFESSIONMechanical technician
(THIS TRANSLATION HAS NO LEGAL STATUS)**3. PROFILE OF SKILLS AND COMPETENCES**

- effectively support engineering design and manufacturing using his/her professional knowledge;
- understand the context of the design and implementation of individual components or assemblies;
- model industrial products, check functional adequacy and prepare the necessary design documentation;
- to prepare the machining of machinable products using universal and CNC machines;
- select the appropriate technology, machining equipment, devices and tools;
- participate in the production process;
- carry out assembly and operation modelling of complex structures using 3D parametric software;
- prepare drawing documentation using 2D or 3D parametric software;
- model machining operations on the basis of a technological plan using CAM software for turning and milling, select the appropriate tools and equipment, and set the necessary technological parameters in the software;
- carry out production testing on a graphical interface, and make any necessary adjustments;
- write or load CNC programs and test them on machining equipment;
- produce, check, measure and document a sample;
- liaise with partners in Hungarian and a foreign language;
- program a robot.

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE3116 Mechanical engineering technician
3136 Draughtsperson
7323 Machining worker**(*) 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 have 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: 6	Grading scale / Pass requirements Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail The prerequisite of being eligible to sit for a sectoral basic examination is the successful completion of all the required training courses, or the recognised prior learning should incorporate the requirements of the sectoral basic examination. The prerequisite of being eligible to sit for a vocational examination is the successful completion of all the training courses and the uninterrupted professional practice required. In case the student is required to pass a sectoral basic examination, latter shall be recognised with the following weighting: 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: 2023.12.07	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 Sectoral basic examination : The examination was passed based on recognised prior learning Vocational examination <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td colspan="2">central interactive</td> </tr> <tr> <td style="width: 80%;">CAD-CAM theory</td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td colspan="2">project exercise</td> </tr> <tr> <td>CAD-CAM practice</td> <td style="text-align: center;">5</td> </tr> <tr> <td colspan="2"> </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>	central interactive		CAD-CAM theory	5	project exercise		CAD-CAM 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	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, Act LXXX of 2019 on Vocational Education and Training.															

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	2052 hours																																																																										
<p>Entry requirements:</p> <ul style="list-style-type: none"> - School prequalification: primary education - Occupational health fitness assessment: required <p>Further information:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">VOCATIONAL PRACTICAL SUBJECT</th> <th style="text-align: right;">HOURS</th> </tr> </thead> <tbody> <tr><td>Basic electrical knowledge</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Basic mechanical engineering knowledge</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Labour safety</td><td style="text-align: right;">12 hour</td></tr> <tr><td>first aid</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Environmental protection</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Machining</td><td style="text-align: right;">12 hour</td></tr> <tr><td>CNC turning</td><td style="text-align: right;">12 hour</td></tr> <tr><td>CNC milling</td><td style="text-align: right;">12 hour</td></tr> <tr><td>CAM studies</td><td style="text-align: right;">12 hour</td></tr> <tr><td>CAM operations</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Production documentation</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Technical measurement</td><td style="text-align: right;">12 hour</td></tr> <tr><td colspan="2"> </td></tr> <tr> <th style="text-align: left;">VOCATIONAL THEORETICAL SUBJECT</th> <th style="text-align: right;">HOURS</th> </tr> <tr><td>Vocational knowledge</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Vocational foreign language knowledge</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Basic electrical knowledge</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Basic mechanical engineering knowledge</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Labour safety</td><td style="text-align: right;">12 hour</td></tr> <tr><td>first aid</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Environmental protection</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Machining</td><td style="text-align: right;">12 hour</td></tr> <tr><td>CNC basics</td><td style="text-align: right;">12 hour</td></tr> <tr><td>CNC programming</td><td style="text-align: right;">12 hour</td></tr> <tr><td>CAD drawing</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Technical drawing</td><td style="text-align: right;">12 hour</td></tr> <tr><td>CAM studies</td><td style="text-align: right;">12 hour</td></tr> <tr><td>CAM operations</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Production documentation</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Technical measurement</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Industrial materials</td><td style="text-align: right;">12 hour</td></tr> <tr><td>Mechanics</td><td style="text-align: right;">12 hour</td></tr> <tr><td> </td><td> </td></tr> <tr><td>Continuous field practice</td><td style="text-align: right;">160 hour</td></tr> <tr><td> </td><td> </td></tr> <tr><td>Altogether</td><td style="text-align: right;">520 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	Labour safety	12 hour	first aid	12 hour	Environmental protection	12 hour	Machining	12 hour	CNC turning	12 hour	CNC milling	12 hour	CAM studies	12 hour	CAM operations	12 hour	Production documentation	12 hour	Technical measurement	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	Labour safety	12 hour	first aid	12 hour	Environmental protection	12 hour	Machining	12 hour	CNC basics	12 hour	CNC programming	12 hour	CAD drawing	12 hour	Technical drawing	12 hour	CAM studies	12 hour	CAM operations	12 hour	Production documentation	12 hour	Technical measurement	12 hour	Industrial materials	12 hour	Mechanics	12 hour			Continuous field practice	160 hour			Altogether	520 hour
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Head of Examination Organiser:
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