

**1. TITLE OF THE PROFESSION**

4 0714 19 13 Mechatronikus karbantartó

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

- manufacture simple workpieces made of metal or plastic with or without manual machining;
- determine the sequence of production and the material requirements on the basis of technical drawings and select the required tools;
- make simple geometric measurements using measuring instruments;
- troubleshoot electrical, pneumatic, electropneumatic and hydraulic systems on the basis of circuit diagrams, assemble and maintain system components following work instructions;
- replace, set and maintain machine components, measure and adjust electrical components on the basis of technical documentation;
- check the condition of electrical connections, adjust and operate sensors, transducers and connecting elements and replace them if necessary;
- check the operation of the safety systems of machines;
- carry out the scheduled maintenance of systems as required;
- use digital pieces of equipment for his/her work as much as technologically required;
- carry out his/her work in compliance with the relevant labour safety, fire safety and environmental protection regulations;
- obtain a heavy current qualification by enrolling in additional training and in possession of knowledge of the electrical industry.

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

7341 Technician and mechanic of electrical equipment and devices

(*) 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: 4 EQF level: 4 Digital Competence Framework level: 5	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 central interactive <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 80%;">Mechatronic maintenance tasks</td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td>project exercise</td> <td></td> </tr> <tr> <td>Mechatronic equipment assembly, maintenance, troubleshooting</td> <td style="text-align: center;">5</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 80%;">Result of the vocational examination in percentage</td> <td style="width: 20%; 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>	Mechatronic maintenance tasks	5	project exercise		Mechatronic equipment assembly, maintenance, troubleshooting	5	Result of the vocational examination in percentage	100%	Result of the vocational examination with grades	5
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Result of the vocational examination in percentage	100%										
Result of the vocational examination with grades	5										
Access to next level of education/training To higher education	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, Government Decree 319/2020 (VII. 1.) on the amendment of Government Decree 12/2020 (II. 7.) on the Implementation of the Vocational Education and Training Act.											

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

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	1994 hours

Entry requirements:

- Educational prerequisite: elementary school qualification
- Occupational aptitude test shall be passed

Further information:

VOCATIONAL PRACTICAL SUBJECT	HOURS
Basic electrical knowledge	12 hour
Basic mechanical engineering knowledge	12 hour
Electrical machinery	12 hour
Electrical installations	12 hour
Drive technology	12 hour
Mechanical assembly	12 hour
Mechanical drawing and manufacturing knowledge	12 hour
Pneumatics, hydraulics	12 hour
Set-up and assembly of manufacturing systems	12 hour
Process control	12 hour
Production control systems	12 hour
Electrical engineering	12 hour
Electronics	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
Electrical machinery	12 hour
Electrical installations	12 hour
Drive technology	12 hour
Mechanics	12 hour
Mechanical assembly	12 hour
Mechanical drawing and manufacturing knowledge	12 hour
Pneumatics, hydraulics	12 hour
Set-up and assembly of manufacturing systems	12 hour
Process control	12 hour
Electrical engineering	12 hour
Electronics	12 hour

Continuous field practice	160 hour
Altogether	496 hour

Link to the Programme and Outcome Requirements and the Programme Curriculum: <https://ikk.hu>
 The present certificate supplement was elaborated in compliance with Government Decree 12/2020 (II. 7.) on the implementation of the Act on Vocational Education and Training.

National Reference Point: National Office of Vocational Education and Training and Adult Learning: <https://nrk.nive.hu>

Head of Examination Organiser: Issue date: 2023.12.07	SEAL
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