



### 1. TITLE OF THE PROFESSION

5 0714 19 12 Mechatronikai technikus

### 2. TRANSLATED TITLE OF THE PROFESSION

Mechatronics technician

(THIS TRANSLATION HAS NO LEGAL STATUS)

### 3. PROFILE OF SKILLS AND COMPETENCES

- build, install, operate, maintain and repair mechatronic equipment, machines and production lines;
- assemble the electrical and mechanical parts of pieces of equipment following the technical documentation, assembly drawings and electrical, pneumatic and hydraulic wiring diagrams, and carry out the adjustments necessary for their trouble-free operation in the course of their work;
- perform regular maintenance following the relevant maintenance documentation and instructions;
- carry out fault localisation, in the event of a malfunction, on the basis of available documentation, using instrumental tests;
- eliminate malfunctions by repairing, replacing or adjusting the necessary parts or groups of parts;
- operate and repair high-voltage equipment after obtaining an add-on qualification;
- build mechatronic equipment;
- carry out their work in a safe manner, in accordance with the relevant labour safety, work safety, fire and environmental regulations;
- interpret and act on the basis of technical specifications, machine manuals and maintenance instructions written in foreign languages.

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

3116 Mechanical engineering technician

3122 Electronics (light current) engineering technician

#### (\*) Explanatory notes:

<sup>1</sup> In the original language. | <sup>2</sup> The translation of the designation is provided for information purposes only. | <sup>3</sup> Fill it out if necessary. The certificate supplement provides additional information on the qualification but has 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															
<b>Name and status of the authority issuing the certificate</b>	<b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b> Ministry for Innovation and Technology														
<b>Level of the certificate (national or international)</b> <b>NQF level:</b> 5 <b>EQF level:</b> 5 <b>Digital Competence Framework level:</b> 6	<b>Grading scale / Pass requirements</b> Five -grade:   5   excellent 4   good 3   satisfactory 2   pass 1   fail <p>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: %, Vocational examination: %</p>														
<b>Certificate number:</b> CXK A  Serial number: 123456  <b>Certificate issue date:</b> 2023.12.07	<b>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</b> <b>Sectoral basic examination :</b> The examination was passed based on recognised prior learning <b>Vocational examination</b> <b>central interactive</b> <table border="1"> <tr> <td>Mechatronics technician vocational knowledge</td> <td>5</td> </tr> </table> <b>project exercise</b> <table border="1"> <tr> <td>Assembly, installation, adjustment, maintenance and repair of mechatronic equipment</td> <td>5</td> </tr> <tr> <td>Assembly, commissioning and repair of mechatronic equipment</td> <td>5</td> </tr> <tr> <td>Portfolio preparation</td> <td>5</td> </tr> <tr> <td>Repair of mechatronic equipment</td> <td>5</td> </tr> </table> <table border="1"> <tr> <td>Result of the vocational examination in percentage</td> <td>100%</td> </tr> <tr> <td>Result of the vocational examination with grades</td> <td>5</td> </tr> </table>	Mechatronics technician vocational knowledge	5	Assembly, installation, adjustment, maintenance and repair of mechatronic equipment	5	Assembly, commissioning and repair of mechatronic equipment	5	Portfolio preparation	5	Repair of mechatronic equipment	5	Result of the vocational examination in percentage	100%	Result of the vocational examination with grades	5
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<b>Access to next level of education/training</b>	<b>International agreements</b>														
<b>Other information concerning the vocational training process</b>															
<b>Legal basis</b> 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 SUPPLEMENT																																																																			
Description of the sectoral basic training and the theoretical and practical vocational training	Distribution of the total number of hours of the programme																																																																		
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<p><b>Entry requirements:</b></p> <ul style="list-style-type: none"> <li>- Educational prerequisite: elementary school qualification</li> <li>- Occupational health aptitude test shall be passed</li> </ul> <p><b>Further information:</b></p> <table> <thead> <tr> <th>VOCATIONAL PRACTICAL SUBJECT</th><th>HOURS</th></tr> </thead> <tbody> <tr><td>Basic electrical knowledge</td><td>12 hour</td></tr> <tr><td>Basic mechanical engineering knowledge</td><td>12 hour</td></tr> <tr><td>Basics of electrical machines</td><td>12 hour</td></tr> <tr><td>Drive technology</td><td>12 hour</td></tr> <tr><td>Mechatronic installations and repairs</td><td>12 hour</td></tr> <tr><td>Pneumatics, hydraulics</td><td>12 hour</td></tr> <tr><td>Maintenance</td><td>12 hour</td></tr> <tr><td>Basics of control engineering</td><td>12 hour</td></tr> <tr><td>Information technology in the industry</td><td>12 hour</td></tr> <tr><td>Automated production machines</td><td>12 hour</td></tr> <tr><td>Process control</td><td>12 hour</td></tr> <tr><td>Mechanical drawing and manufacturing knowledge</td><td>12 hour</td></tr> <tr><td>Electrical engineering</td><td>12 hour</td></tr> <tr><td>Electronics</td><td>12 hour</td></tr> <tr> <td>VOCATIONAL THEORETICAL SUBJECT</td><td>HOURS</td></tr> <tr><td>Vocational knowledge</td><td>12 hour</td></tr> <tr><td>Vocational foreign language knowledge</td><td>12 hour</td></tr> <tr><td>Basic electrical knowledge</td><td>12 hour</td></tr> <tr><td>Basic mechanical engineering knowledge</td><td>12 hour</td></tr> <tr><td>Basics of electrical machines</td><td>12 hour</td></tr> <tr><td>Drive technology</td><td>12 hour</td></tr> <tr><td>Mechatronic installations and repairs</td><td>12 hour</td></tr> <tr><td>Pneumatics, hydraulics</td><td>12 hour</td></tr> <tr><td>Maintenance</td><td>12 hour</td></tr> <tr><td>Basics of control engineering</td><td>12 hour</td></tr> <tr><td>Information technology in the industry</td><td>12 hour</td></tr> <tr><td>Mechanics</td><td>12 hour</td></tr> <tr><td>Mechanical drawing and manufacturing knowledge</td><td>12 hour</td></tr> <tr><td>Electrical engineering</td><td>12 hour</td></tr> <tr><td>Electronics</td><td>12 hour</td></tr> <tr><td>Continuous field practice</td><td>160 hour</td></tr> <tr><td>Altogether</td><td>508 hour</td></tr> </tbody> </table> <p>Link to the Training and Outcome Requirements and the Programme Plans: <a href="https://ikk.hu">https://ikk.hu</a>  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><b>National Reference Point: National Office of Vocational Education and Training and Adult Learning: <a href="https://nrk.nive.hu">https://nrk.nive.hu</a></b></p>		VOCATIONAL PRACTICAL SUBJECT	HOURS	Basic electrical knowledge	12 hour	Basic mechanical engineering knowledge	12 hour	Basics of electrical machines	12 hour	Drive technology	12 hour	Mechatronic installations and repairs	12 hour	Pneumatics, hydraulics	12 hour	Maintenance	12 hour	Basics of control engineering	12 hour	Information technology in the industry	12 hour	Automated production machines	12 hour	Process control	12 hour	Mechanical drawing and manufacturing knowledge	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	Basics of electrical machines	12 hour	Drive technology	12 hour	Mechatronic installations and repairs	12 hour	Pneumatics, hydraulics	12 hour	Maintenance	12 hour	Basics of control engineering	12 hour	Information technology in the industry	12 hour	Mechanics	12 hour	Mechanical drawing and manufacturing knowledge	12 hour	Electrical engineering	12 hour	Electronics	12 hour	Continuous field practice	160 hour	Altogether	508 hour
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Head of Examination Organiser: Issue date: 2023.12.07	SEAL
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