

**1. TITLE OF THE PROFESSION**

5 0714 04 03 Elektronikai technikus

2. TRANSLATED TITLE OF THE PROFESSION

Electronics technician

(THIS TRANSLATION HAS NO LEGAL STATUS)

3. PROFILE OF SKILLS AND COMPETENCES

- design, manufacture, assemble, measure, repair and maintain electrical and electronic equipment and instruments;
- get to know and apply electrical safety, Electrostatic Discharge (ESD) protection and quality assurance standards;
- build individual devices based on documentation, program microcontroller circuits;
- assess the expected material requirements, the estimated time required for the repair and its expected cost as a repair technician and discuss the repair information with the customer;
- provide information to production and quality assurance as a procedural failure analyst and corrective technician, thus supporting meeting quality and quantity requirements;
- support the work of the electronic technicians working under their guidance;
- use modern measuring technology and diagnostic tools;
- use and program computer-controlled measuring, monitoring and manufacturing tools;
- prepares and interprets electronic circuit diagrams. Identifies the sub-circuits of an electronic circuit from an electrical drawing, recognises their function. Finds the data sheet of an unknown component. Evaluates the identified information. Uses digital teaching materials. Applies professional English skills;
- builds and sets up electronic circuits. Assembles the completed electronic circuit or installs it into equipment, using documentation. Performs extra-low and low voltage wiring. Prepares documents and technical specifications for production orders using standard software;
- troubleshoots errors in a faulty electronic circuit by visual inspection and/or electrical measurements. Professionally repairs the faulty electronic circuit. Professionally documents the measurements and repairs carried out. Shares the repair information with the customer. Keeps records of measuring instruments, calibrates and certifies them. Uses professional terminology in their communication. Reports on their work. Supervises the work of electronic technicians, provides professional support;
- operates and maintains electronic production equipment and performs their daily maintenance. Recognises malfunctions and identifies simple mechanical or electrical faults. Replaces faulty parts of automated equipment with reference parts. Reports emergencies, participates in rescue, provides first aid;
- writes simple microcontroller programs. Loads pre-written programs;
- detects unusual phenomena and operational irregularities in IT systems and takes measures to eliminate them.

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

3122 Electronics (light current) engineering technician

(*) 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 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

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: 7	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: %, Vocational examination: %																
Certificate number: CXK A Serial number: 123456 Certificate issue date: 2025.03.14	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%;">Electronics technician professional knowledge</td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td>Electrotechnical calculations</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Circuit sizing exercises</td> <td style="text-align: center;">5</td> </tr> </table> project exercise <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 80%;">Electronics technician project assignment</td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td>Portfolio presentation and oral defence, self-reflection</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Construction assignment</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>	Electronics technician professional knowledge	5	Electrotechnical calculations	5	Circuit sizing exercises	5	Electronics technician project assignment	5	Portfolio presentation and oral defence, self-reflection	5	Construction assignment	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, 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, Act LXXX of 2019 on Vocational Education and Training, Government Decree 292/2023 (VII. 6.) on the amendments to government decrees due to the ex-post impact assessment of the transformation in 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	2500 hours

Entry requirements:

- Educational prerequisite: elementary school qualification
- Occupational health aptitude test: required

Further information:

VOCATIONAL PRACTICAL SUBJECT	HOURS
Basic electrical knowledge	12 hour
Basic mechanical engineering knowledge	12 hour
Electrical engineering	12 hour
Analogue circuits	12 hour
Digital circuits	12 hour
Basics of programming	12 hour
Computer simulation	12 hour
Building and operation of circuits	12 hour
Microcontrollers	12 hour
Industrial process control with programmable logic controller (PLC)	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 engineering	12 hour
Analogue circuits	12 hour
Digital circuits	12 hour
Computer simulation	12 hour
Building and operation of circuits	12 hour
Microcontrollers	12 hour
Industrial process control with programmable logic controller (PLC)	12 hour
Continuous field practice	160 hour
Altogether	412 hour

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.

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

Head of Examination Organiser:
Issue date: 2025.03.14

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