



**1. TITLE OF THE PROFESSION**

5 0714 04 05 Ipari informatikai technikus

**2. TRANSLATED TITLE OF THE PROFESSION**

Industrial informatics technician  
(THIS TRANSLATION HAS NO LEGAL STATUS)

**3. PROFILE OF SKILLS AND COMPETENCES**

- provide state-of-the-art IT product, process and back-office support for both hardware and software in an industrial environment;
- plan, coordinate and maintain the establishment of fixed and wireless connections, operate basic telecommunications and network systems;
- expand their remit by assessing and technically documenting the digital data and processing needs of the industry, and implementing them at user level;
- work in the Industry 4.0 environment;
- perform administrative tasks in a corporate environment.

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

3141 Information and communications technology operations technician  
3142 Information and communications technology user support technician  
3143 Computer network and systems 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 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

<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>  NQF level: 5  EQF level: 5  Digital Competence Framework level: 7	<b>Grading scale / Pass requirements</b>  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%																				
<b>Certificate number: CXK A</b>  Serial number: 123456  Certificate issue date: 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> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td colspan="2"><b>central interactive</b></td> </tr> <tr> <td style="padding: 2px;">Industrial informatics knowledge</td> <td style="text-align: center; padding: 2px;">5</td> </tr> <tr> <td colspan="2"><b>project exercise</b></td> </tr> <tr> <td style="padding: 2px;">Industrial informatics in practice</td> <td style="text-align: center; padding: 2px;">5</td> </tr> <tr> <td style="padding: 2px;">Examination part 1: Creating and presenting a personal website</td> <td style="text-align: center; padding: 2px;">5</td> </tr> <tr> <td style="padding: 2px;">Examination part 2: Networking IoT or PLC and/or microcontroller device(s) with network parameterisation</td> <td style="text-align: center; padding: 2px;">5</td> </tr> <tr> <td colspan="2" style="padding: 2px;">Result of the vocational examination in percentage</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="text-align: center; padding: 2px;">100%</td> </tr> <tr> <td colspan="2" style="padding: 2px;">Result of the vocational examination with grades</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="text-align: center; padding: 2px;">5</td> </tr> </table>	<b>central interactive</b>		Industrial informatics knowledge	5	<b>project exercise</b>		Industrial informatics in practice	5	Examination part 1: Creating and presenting a personal website	5	Examination part 2: Networking IoT or PLC and/or microcontroller device(s) with network parameterisation	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, 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	2070 hours

### Entry requirements:

- Educational prerequisite: elementary education
- 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
Computer simulation	12 hour
Basics of programming	12 hour
Webpage creation	12 hour
Basics of database management	12 hour
Program development	12 hour
Network management	12 hour
Computer system operation	12 hour
Microcontroller programming	12 hour
PLC programming	12 hour
Basics of control engineering	12 hour
Robotics, CAD/CAM	12 hour
Industrial bus and fieldbus systems	12 hour
IoT	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
Basics of programming	12 hour
Webpage creation	12 hour
Basics of database management	12 hour
Program development	12 hour
Network management	12 hour
Computer system operation	12 hour
Microcontroller programming	12 hour
PLC programming	12 hour
Basics of control engineering	12 hour
Robotics, CAD/CAM	12 hour
Industrial bus and fieldbus systems	12 hour
IoT	12 hour

Continuous field practice 160 hour

Altogether 616 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: 2023.12.07

**SEAL**

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