

**1. TITLE OF THE PROFESSION**

5 0612 12 02 Informatikai rendszer- és alkalmazás-üzemeltető technikus

2. TRANSLATED TITLE OF THE PROFESSIONComputer system and application operation technician
(THIS TRANSLATION HAS NO LEGAL STATUS)**3. PROFILE OF SKILLS AND COMPETENCES**

- design, install and operate small and medium-sized networks, independently and working as part of a team;
- ensure the coordinated operation and updating of IT network devices, servers and workstations with different operating systems and of applications, both in-house and used as cloud services, and provide network connectivity to cloud services;
- provide assistance to colleagues in the use of applications;
- install and configure IT security tools, firewalls and anti-virus software, operate a virtualised server environment;
- perform application and web-related tasks, operate a web server system and manage databases, in possession of basic computer programming knowledge;
- communicate effectively on professional topics both in Hungarian and English;
- cooperate with systems organisers and software developers, solve simple issues independently, using internet resources;
- design and build relational databases, create multi-table queries;
- implement wide-area network (WAN) connectivity and traffic management, establish secure and authenticated connection between the sites;
- perform network monitoring and network surveillance tasks;
- write programs to solve problems or automate network processes using Python or a similar computer programming language;
- install and operate server services under Windows and Linux operating systems;
- perform static and dynamic traffic management and network address translation (NAT) on the local network;
- design and deploy networks with Layer 3 redundancy according to the Open Systems Interconnection (OSI) model, for example, by using the first hop redundancy protocol (FHRP).

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

3143 Computer network and systems 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: 8	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: 10%, Vocational examination: 90%														
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%;">Computer system and application operation – interactive test</td> <td style="width: 20%; text-align: center;">5</td> </tr> <tr> <td colspan="2">project exercise</td> </tr> <tr> <td>Computer network and application operation</td> <td style="text-align: center;">5</td> </tr> <tr> <td colspan="2">Result of the vocational examination in percentage</td> </tr> <tr> <td></td> <td style="text-align: center;">100%</td> </tr> <tr> <td colspan="2">Result of the vocational examination with grades</td> </tr> <tr> <td></td> <td style="text-align: center;">5</td> </tr> </table>	Computer system and application operation – interactive test	5	project exercise		Computer network and application operation	5	Result of the vocational examination in percentage			100%	Result of the vocational examination with grades			5
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	5														
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	2117 hours

Entry requirements:

- Educational prerequisite: elementary school qualification

Further information:

VOCATIONAL PRACTICAL SUBJECT	HOURS
Basics of information technology and telecommunications I	12 hour
Basics of information technology and telecommunications II	12 hour
Basics of computer programming	12 hour
ICT project work I	12 hour
ICT project work II	12 hour
Networks I	12 hour
Networks II	12 hour
Programming of networks and IoT	12 hour
Servers and cloud services	12 hour
Database management I	12 hour

VOCATIONAL THEORETICAL SUBJECT	HOURS
Vocational knowledge	12 hour
Vocational foreign language knowledge	12 hour
Basics of information technology and telecommunications I	12 hour
Basics of information technology and telecommunications II	12 hour
Basics of computer programming	12 hour
ICT project work I	12 hour
ICT project work II	12 hour
Networks I	12 hour
Networks II	12 hour
Programming of networks and IoT	12 hour
Servers and cloud services	12 hour
Database management I	12 hour
Vocational English language knowledge	12 hour

Continuous field practice 160 hour

Altogether 436 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