\*\*\*\* \*\*\*\*

europass

### 1. TITLE OF THE PROFESSION

5~0613~12~03Szoftverfejlesztő és -tesztelő technikus

## 2. TRANSLATED TITLE OF THE PROFESSION

Software development and testing technician (THIS TRANSLATION HAS NO LEGAL STATUS)

## 3. PROFILE OF SKILLS AND COMPETENCES

- select the most appropriate techniques, procedures and methods for his/her software development tasks;
- set up web pages with standard and responsive web design, using style sheets, and configure search engine optimisation parameters;
- write codes in the JavaScript programming language that ensure the dynamic behaviour of simple websites;
- develop one of the components of the RESTful application, the client-server architecture in the JavaScript language;
- develop database management and console or graphical user interface (GUI) desktop applications using high-level programming language (C#, Java);
- design and set up relational databases for data management applications and create multi-table queries;
- develop client-side applications for mobile devices as part of stand-alone or complex software systems;
- develop client-side (frontend) applications that run in a web environment, using a JavaScript framework;
- develop the server-side (backend) component of the RESTful application, also serving database management purposes, using a suitable language or framework;
- configure network devices, connect devices to the network and configure network security to create a working environment for software development and testing, ensure secure web communication in the developed software, using HTTPS protocol;
- be open to the application of new technologies and continuously improve his/her knowledge;
- communicate effectively in technical topics in both Hungarian and English;
- carry out independently the assigned tasks working in a team and use development and version control tools to support teamwork.

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

#### (\*) 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.  $\odot$ European Union, 2002-2020 | europass.cedefop.europa.eu  $\odot$ 

5. OFFICIAL BASIS OF THE CERTIFICATE		
Name and status of the authority issuing the certificate	Name and status of the national/regional autho providing accreditation/recognition of the certificate Ministry for Innovation and Technology	-
Level of the certificate (national or international)	Grading scale / Pass requirements	
NQF level: 5	Five -grade: 5 excellent	
EQF level: 5	$4 \mod$	
	3 satisfactory	
Digital Competence Framework level: 8	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 recognised prior learning should incorporate the requirements of sectoral basic examination. The prerequisite of being eligible to sit a vocational examination is the successful completion of all the train courses and the uninterrupted professional practice required. In the student is required to pass a sectoral basic examination, latter be recognised with the following weighting: The result of the basic sectoral examination will be computed into of the vocational examination with the following weighting: Sectoral examination: 10%, Vocational examination: 90%	r the f the it for ining case shall that ctoral
Certificate number: CXK A	Designation of the theoretical and practical subjects of sectoral basic examination and the vocational examination their grades according to a five-grade scale	
Serial number: 123456	Sectoral basic examination : The examination was passed base recognised prior learning	ed on
Certificate issue date: 2023.12.07		
	Result of the vocational examination in percentage 100	0%
	Result of the vocational examination with grades	5
Access to next level of education/training To higher education	International agreements	
	I	
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.

## 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	2054 hours
Entry requirements:	
- 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
Development of desktop applications	12 hour
Database management I	12 hour
Database management II	12 hour
Development and testing of desktop and mobile applications	12 hour
Software testing	12 hour
Web programming	12 hour
Frontend programming and testing	12 hour
Backend programming and testing	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
Development of desktop applications	12 hour
Database management I	12 hour
Database management II	12 hour
Development and testing of desktop and mobile applications	12 hour
Software testing	12 hour
Web programming	12 hour
Frontend programming and testing	12 hour
Backend programming and testing	12 hour
Vocational English language knowledge	12 hour
Continuous field practice	160 hour
Altogether	508 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