

1. Title of the certificate (HR) and programme number <sup>(1)</sup>**Tehničar za računalstvo**

(041604)

<sup>(1)</sup> In the original language2. Translated title of the certificate (EN) <sup>(1)</sup>**Computer Technician**<sup>(1)</sup> If applicable. This translation has no legal status.

## 3. Profile of skills and competences

## A) GENERAL EDUCATION COMPETENCES

- Active use of mother tongue and foreign languages using basic communication knowledge and skills with the use of professional terminology
- Solve complex mathematical problems
- Comprehend and apply physical principles and natural world principles by applying chemical and biological knowledge within the framework of sustainable community development
- Use modern information and communication technology safely and critically
- Continuously acquire knowledge and skills in line with technological changes
- Have knowledge of basic economic concepts and functioning of the economic system as a whole, acquire and apply entrepreneurial competences
- Apply consistently professional ethics and civic education principles
- Regular physical exercise and continuous use of work safety procedures

## B) VOCATIONAL COMPETENCES

- Design, fabricate and maintain local networks in small businesses and offices, tune network devices, remove configuration errors, interconnect local networks and connect to the Internet
- Design and create simple relational databases, read and entry data in the database
- Diagnose simple problems of the computer systems under operation, install the operating system, the antivirus programs or the basic user software using analysis of security threats and the application of protection methods
- Differentiate between the basic elements of microcomputers and microprocessor structure and their relations and design the block scheme and the diagram of state of the system under operation
- Apply IT technology in business for preparing letters, spreadsheets, presentations and databases and for viewing web sites and for correspondence
- Use and apply the program structures and algorithms in the development of software solutions of a lower complexity degree by means of sequential programming methods and tools, fabricate complex computer programs with graphical interface using object-oriented development tools and programs
- Create and update technical and technological documentation
- Configure complex computer networks based on LAN technology in smaller companies and offices using routers and switches and other network equipment (e.g. DSL)
- Design and create the more complex interactive web sites that connect to a database using script languages (HTML, CSS, XML and Java Script) and the development tools for web programming (PHP)
- Identify complex interferences in the operation of computer systems, personal and server computers and eliminate malfunctions and problems by modifying or repairing hardware modules and installing or modifying software
- Install and maintain server and client operating systems and work environment at the level of a smaller sized company or office to the level of domain complexity
- Be able to acquire on a life-long basis the skills necessary to create multimedia contents and web sites, program microcontrollers and mobile devices, as well as knowledge in the field of computer hardware, operating systems and internet safety

#### 4. Range of occupations accessible to the holder of the certificate

He/she maintains relational databases and computer programs, monitors them, determines hardware and software issues and removes them. He/she configures and maintains computers and local computer networks. He/she can be employed as a web developer, a computer operator, an IT servicer, a system administrator, an IT administrator, a computer technician. Self-employment is possible by setting up a trade.

#### 5. Official basis of the certificate

<b>Name and status of the body awarding the certificate</b>  The certificate is issued by the secondary education institution (vocational education and training school).	<b>Name and status of the national authority providing accreditation/recognition of the certificate</b>  Ministry of Science and Education Donje Svetice 38 10 000 Zagreb <a href="http://www.mzo.hr">www.mzo.hr</a>
<b>Legal basis</b> Primary and Secondary School Education Act (Official Gazette No. 87/2008, 86/2009, 92/2010, 105/2010-corr., 90/2011, 16/2012, 86/2012, 94/2013, 152/2014, 7/2017, 68/2018, 98/2019 and 64/2020) Vocational Education Act (Official Gazette No. 30/2009, 24/2010, 22/2013 and 25/2018) Croatian Qualifications Framework Act (Official Gazette No. 22/2013, 41/2016, 64/2018, 47/2020 and 20/2021)	<b>National grading system / Pass requirements</b> Excellent 5 (10) A Very good 4 (9) B Good 3 (8) B Sufficient 2 (6-7) C Insufficient 1 (0-5) F  In order to pass the exam, it is necessary to get the grade 2 (6-7), i.e. C (sufficient).
<b>Level of qualifications</b>  Level 4.2. in the Croatian Qualifications Framework	<b>Access to next level of education/training</b>  Access to higher level of qualification in accordance with the Croatian Qualifications Framework.

#### 6. General data of acquiring the certificate

Description of vocational education and training received	Percentage of total programme (%)	Total number of hours
General education part	53,2 %	2332
Vocational part – theoretical	20,3%	892
Vocational part – practice/exercises	26,5%	1160
<b>Duration of education</b>		4 years

**Entry requirements:** The completion of primary education.

**More information available at:**

Ministry of Science and Education ([www.mzos.hr](http://www.mzos.hr))  
 Education and Teacher Training Agency ([www.azoo.hr](http://www.azoo.hr))  
 Agency for Vocational Education and Adult Education ([www.asoo.hr](http://www.asoo.hr))

**National reference point:**

National Europass Centre ([www.europass.hr](http://www.europass.hr)) at the Agency for Mobility and EU Programmes ([www.mobilnost.hr](http://www.mobilnost.hr)).

<sup>(\*)</sup> **Explanatory note**

The Certificate supplement provides additional information about the certificate and does not have any legal status in itself. Its format is based on the 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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