

1. Title of the certificate (HR) and programme number

Tehničar za računalstvo

(041624)

In the original language.

2. Translated title of the certificate (EN)⁽¹⁾

Computer technician

⁽¹⁾ This translation has no legal status.

3. Profile of skills and competences
A) GENERAL EDUCATION COMPETENCES

- Actively use mother tongue and foreign languages by applying language activities and basic communication knowledge and skills in different situations
- Apply basic mathematical knowledge, skills and processes and solve complex mathematical problems
- Comprehend and apply physical principles by applying chemical and biological knowledge within the framework of sustainable community development
- Comprehend geographic processes and fundamental historical knowledge
- Use modern information and communication technology safely and critically
- Have knowledge of basic economic concepts and functioning of the economic system, acquire and apply entrepreneurial competences
- Apply consistently professional ethics and civic education principles
- Foster physical and health culture by exercising regularly in accordance with individual possibilities in order to protect and preserve health


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 can perform tasks related to the testing, installation, maintenance and servicing of electronic circuits and devices and to prepare developmental, technological and operational documentation. Examples of professions are: a medical electronic device repairman, a photovoltaic system installer, a household appliance repairman. Self-employment is possible as a repairman, installer, etc..

5. Official basis of the certificate	
Name and status of the body awarding the certificate The certificate is issued by the secondary education institution (vocational education and training school).	Name and status of the national authority providing accreditation/recognition of the certificate Ministry of Science and Education Donje Svetice 38 10 000 Zagreb www.mzo.hr
Legal basis 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, 64/2020, 151/2022 and 156/2023) Vocational Education Act (Official Gazette No. 30/2009, 24/2010, 22/2013, 25/2018 and 69/2022) Croatian Qualifications Framework Act (Official Gazette No. 22/2013, 41/2016, 64/2018, 47/2020 and 20/2021)	National grading system / Pass requirements 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).
Level of qualifications Level 4.2. in the Croatian Qualifications Framework	Access to next level of education/training Access to higher level of qualification in accordance with the Croatian Qualifications Framework.

6. General data of acquiring the certificate		
	Percentage of total programme (%)	Total number of hours
General education part	53,2	2332
Vocational part – theoretical	19,5	857
Vocational part – practice/exercises	27,3	1195
Duration of education		4 years
Entry requirements: Completion of primary education More information available at: Ministry of Science and Education (www.mzo.hr) Education and Teacher Training Agency (www.azoo.hr) Agency for Vocational Education and Adult Education (www.asoo.hr) National reference point: National Europass Centre (www.europass.hr) at the Agency for Mobility and EU Programmes (www.ampeu.hr). ^(*) 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. © European Union, 2002-2020		
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