

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

Strojarski računalni tehničar

(015304)

⁽¹⁾ In the original language

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

Mechanical Computer Technician

⁽¹⁾ If applicable. This translation has no legal status.

3. Profile of skills and competences

A) GENERAL EDUCATION COMPETENCES

- Use basic communication knowledge and skills through active use of mother tongue and foreign languages with the use of professional terminology
- Apply physical principles and solve mathematical problems
- Use modern information and communication technology safely and critically
- Continuously acquire knowledge and skills in line with technological changes
- Identify, assess and manage risks and dangers
- Have knowledge of basic economic concepts and functioning of the economic system as a whole
- Apply consistently professional ethics and civic education principles
- Regular physical exercise and continuous use of work safety procedures

B) VOCATIONAL COMPETENCES

- Apply technical drawing basics and machine elements in analysis and preparation of the manufacturing and technological process
- Do computer drawing
- Apply appropriate technical materials in the analysis and preparation of the manufacturing and technological process
- Calculate and construct machine and assembly elements
- Calculate and construct simple tools and gadgets
- Do mechanical measurement, test material properties and assure quality of products and technological processes
- Design technological processes by drafting technical documentation
- Plan and implement maintenance procedures
- Program numerically controlled machines and make machine parts by using them
- Describe the elements of pneumatic and hydraulic devices and systems and make simple diagrams with the functional merging of the elements
- Describe and calculate thermodynamic processes and sizes and apply these to heat machines and devices
- Describe electrical machines and devices, electronic components and their application in plants and facilities
- Apply basic robotics, identify and differentiate control and regulation processes and their elements
- Apply communication technology and skills in business communication with the market
- Apply regulations and means of work safety, fire protection and environmental protection

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

Mechanical computer technician qualification enables the following positions: technologist in work preparation, maintenance technician, technical draftsman, NUAS developer, tool and device constructor, quality control (maintenance) technician. The specificity of this profession is the need for continuing improvement due to extremely dynamic development and change in technique.

5. Official basis of the certificate

<p>Name and status of the body awarding the certificate The certificate is issued by the secondary education institution (vocational education and training school).</p>	<p>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</p>
<p>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 and 7/2017) Vocational Education Act (Official Gazette No. 30/2009 and 25/2018) Croatian Qualifications Framework Act (Official Gazette No. 22/2013 and 41/2016)</p>	<p>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</p> <p>In order to pass the exam, it is necessary to get the grade 2 (6-7), i.e. C (sufficient).</p>
<p>Level of qualifications Level 4.2. in the Croatian Qualifications Framework</p>	<p>Access to next level of education/training Access to higher level of qualification in accordance with the Croatian Qualifications Framework.</p>

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	54,9%	2373
Vocational part – theoretical	22,1%	956
Vocational part – practice/exercises	23,0%	991
Duration of education		4 years

Entry requirements: The completion of primary education.

More information available at:

Ministry of Science and Education (www.mzos.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.mobilnost.hr).

(*) Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any legal status in itself. The format of the description is based on the following texts: Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications, Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers.

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