



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

Strojarski računalni tehničar

(015324)

In the original language.

2. Translated title of the certificate (EN) ⁽¹⁾**Mechanical 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 mathematical problems
- Comprehend and apply physical principles and basic knowledge of chemistry
- 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
- 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

- 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 the function of 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

Name and status of the body awarding the certificate The certificate is issued by the adult education institution.	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 Adult Education Act (Official Gazette No. 144/2021) 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)	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

Description of vocational education and training received	Percentage of total programme (%)	Total number of hours
General education part	54,1%	at least 1187 ¹
Vocational part – theoretical	20,2%	at least 443 ²
Vocational part – practice/exercises	25,7%	1125
Duration of education		1 – 3 years

Entry requirements: Completion of primary education

¹⁾ For the learner acquiring the qualification, the number of hours of the theoretical part of each general education and vocational subject may be up to 50% lower than the number of hours prescribed by the full-time education curriculum, in case all learning outcomes are achieved. The number of hours of work-based learning (practical classes/ exercises) is realised in full.

²⁾ For the learner who had previously achieved all learning outcomes of general education subjects and some learning outcomes of vocational subjects, as proven by a public document, all previously achieved learning outcomes are recognized since they form part of the qualification additionally acquired by the student, thus leading to the duration of education being proportionally shortened.

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).

(¹⁾ Explanatory note

The Certificate Supplement provides additional information about the certificate, including the certificate based on which all previously achieved learning outcomes are recognized, 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

