

1. Title of the certificate (HR) and programme number <sup>(1)</sup>**Strojarski računalni tehničar**

(015324)

<sup>(1)</sup> In the original language.2. Translated title of the certificate (EN) <sup>(2)</sup>**Mechanical computer technician**<sup>(2)</sup> 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

<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, Education and Youth Donje Svetice 38 10000 Zagreb <a href="http://www.mzom.hr">www.mzom.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, 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)	<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

	Percentage of total programme (%)	Total number of hours
General education part	54,1	2373
Vocational part – theoretical	20,2	886
Vocational part – practice/exercises	25,7	1125
<b>Duration of education</b>		4 years

**Entry requirements:** Completion of primary education

**More information available at:**

Ministry of Science, Education and Youth ([www.mzom.hr](http://www.mzom.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.ampeu.hr](http://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.

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