

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

**CNC operater/CNC operaterka (dualni model obrazovanja)**  
(442703)

<sup>(1)</sup> In the original language.

2. Translated title of the certificate (EN) <sup>(2)</sup>

**CNC operator (dual model of education)**

<sup>(2)</sup> This translation has no legal status.

## 3. Profile of skills and competences

## A) GENERAL EDUCATION COMPETENCES

- Use actively mother tongue and foreign languages by applying language activities and basic communication skills in different situations
- Apply basic mathematical knowledge, skills and processes and solve problems
- Use modern information and communication technology safely and actively
- Continuously acquire knowledge and skills in line with technological changes
- Apply consistently ethical principles and respect diversity
- Understand economic systems and apply entrepreneurial competences
- Exercise regularly and foster health culture



## B) VOCATIONAL COMPETENCES

- Apply computer technical drawing standards
- Apply mechanical engineering basics and machine elements in CNC technologies
- Have knowledge of material characteristics for the purpose of planning and implementing the manufacturing process
- Check the correct functioning and functionality of CNC machines and supporting equipment before starting work
- Select prescribed tools, clamping devices and working parameters in accordance with technical and technological documentation
- Create programmes for manufacturing simple products and process simulations
- Enter the programme into the control unit of the numerically controlled machine tool
- Monitor the manufacturing process with possible corrections of work parameters
- Maintain functionality and regularity of CNC machines during operation
- Carry out measurement procedures to ensure the quality of the product and the flow of the manufacturing process
- Keep records related to the manufacture and maintenance of CNC machines
- Apply communication skills and technologies in business communication
- Apply consistently regulations and means of work safety, fire protection and environmental protection

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

The CNC operator performs the tasks of programming simple work operations, independently starting, servicing, controlling and managing the work of numerically controlled machine tools. The CNC operator uses technical and technological documentation, measuring equipment and tools. Prepares raw materials and calibrates tools, controls workpiece dimensions and quality of finished products. During work, prepares, monitors and supervises the machine's operation process and performs a simple check of the CNC machine functionality. The CNC operator works mostly in the metalworking industry, and with the acquired competences, can work on the manufacturing of products from wood, stone, glass, etc.

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 and Training 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 (sufficient).
<b>Level of qualifications</b>  Level 4.1. 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	23,11	816
Vocational part – theoretical	9,83	347
Vocational part – exercises/ work-based learning	67,06	2368
<b>Duration of education</b>		3 years
<b>Entry requirements:</b> The completion of primary education  <b>More information available at:</b> Ministry of Science, Education and Youth ( <a href="http://www.mzom.hr">www.mzom.hr</a> ) Education and Teacher Training Agency ( <a href="http://www.azoo.hr">www.azoo.hr</a> ) Agency for Vocational Education and Adult Education ( <a href="http://www.asoo.hr">www.asoo.hr</a> )  National Europass Centre in Croatia ( <a href="http://www.europass.hr">www.europass.hr</a> ) at the Agency for Mobility and EU Programmes ( <a href="http://www.ampeu.hr">www.ampeu.hr</a> ).  <b>(*) Explanatory note</b> This document provides additional information about the school 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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