

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

(212224)

In the original language.

**2. Translated title of the certificate (EN) <sup>(1)</sup>****Web Programmer**<sup>(1)</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 knowledge and skills in different situations
- Apply mathematical knowledge, skills and processes and solve complex mathematical problems
- Understand and apply physical laws
- Understand and apply basic chemical and biological knowledge within the framework of sustainable community development
- Understand the geographical processes and fundamental historical knowledge
- Use modern information and communication technology safely and critically
- Understand economic systems, acquire and apply entrepreneurial competences
- Act in accordance with the principles of professional ethics and civic education
- Foster physical and health culture by exercising regularly in accordance with individual possibilities in order to maintain and preserve health

**B) VOCATIONAL COMPETENCES**

- Design and develop a functional web project according to defined goals, purpose and in accordance with the visual concept
- Plan and design an interactive and dynamic web page connected to the database using scripting languages (HTML, CSS, XML and Java Script) and development tools for web programming (PHP)
- Analyse the work of the programme and diagnose errors and disruptions
- Apply the principles of structural and modular programming in solving practical problems
- Apply basic programming algorithms and data structures in the development of programming solutions
- Model and develop a relational database
- Draft and update technical and technological documentation
- Apply IT technology in business operations for creating letters, tabular budgets and presentations
- Communicate with colleagues and clients in accordance with the rules of business communication and the rules of the profession
- Apply legal regulations concerning work safety, environmental protection and sustainable development

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

Web programmer creates web applications and upgrades them. He/she performs the work of writing and maintaining code commands using different software tools and programming languages. The occupation of web programmer includes programme skills for code writing and developing a database for the purpose of system functionality. The job of web programmer is project-oriented and often requires teamwork. Self-employment is possible.

## 5. Official basis of the certificate

<p><b>Name and status of the body awarding the certificate</b></p> <p>The certificate is issued by the secondary education institution (vocational education and training school).</p>	<p><b>Name and status of the national authority providing accreditation/recognition of the certificate</b></p> <p>Ministry of Science and Education Donje Svetice 38 10000 Zagreb <a href="http://www.mzo.hr">www.mzo.hr</a></p>
<p><b>Legal basis</b></p> <p>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 and 151/2022) 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)</p>	<p><b>National grading system / Pass requirements</b></p> <p>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).</p>
<p><b>Level of qualifications</b></p> <p>Level 4.2. in the Croatian Qualifications Framework</p>	<p><b>Access to next level of education/training</b></p> <p>Access to higher level of qualification in accordance with the Croatian Qualifications Framework.</p>

## 6. General data of acquiring the certificate

	Percentage of total programme (%)	Total number of hours
General education part	55,7 %	2463
Vocational part – theoretical	17,9 %	790
Vocational part – practice/exercises	26,4 %	1166
<b>Duration of education</b>		4 years

**Entry requirements:** Completion of primary education

**More information available at:**

Ministry of Science and Education ([www.mzo.hr](http://www.mzo.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)).

**(<sup>1</sup>) 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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