

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

Web programmer

(212224)

⁽¹⁾ In the original language.

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

Web programmer

⁽²⁾ 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

Name and status of the body awarding the certificate The certificate is issued by the secondary education institution (vocational education and training school).	Name and status of the national authority providing accreditation/recognition of the certificate Ministry of Science, Education and Youth Donje Svetice 38 10000 Zagreb www.mzom.hr
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, 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)	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

	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
Duration of education		4 years

Entry requirements: Completion of primary education

More information available at:

Ministry of Science, Education and Youth (www.mzom.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).

(*) 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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