

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

**Tehničar za elektroniku**

(041424)

In the original language.

2. Translated title of the certificate (EN)<sup>(1)</sup>**Electronics technician**<sup>(1)</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
- Understand and apply physical principles, apply chemical and biological knowledge within the framework of sustainable community development
- Comprehend geographic processes and fundamental historical knowledge
- Use modern information and communication technology safely and critically
- Understand the economic system, acquire and apply entrepreneurial competences
- Act in accordance with the 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

- Design, manufacture and start a simple analogue or digital electronic circuit and/or device
- Assemble, tune and maintain electronic circuits and/or devices
- Perform and connect the electrical installation according to the connection diagrams
- Determine and diagnose malfunction on a circuit and/or device by means of electrical/electronic measuring instruments
- Apply basic knowledge of electrical machines and devices and the management and regulation of automation systems
- Collect and process data using computers and microcontrollers
- Perform simple automated control system and manage a microcontroller or industrial computer and manage a robot
- Network computers and/or devices
- Create and update technical and technological documentation
- Create tender documentation based on technical documentation
- Apply the legal regulations and standards for technical work

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

He/she can perform tasks related to the testing, installation, maintenance and servicing of electronic circuits and devices and to prepare developmental, technological and operational documentation. Examples of professions are: a medical electronic device repairman, a photovoltaic system installer, a household appliance repairman. Self-employment is possible as a repairman, installer, etc.

## 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 10 000 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, 151/2022 and 156/2023)</p> <p>Vocational Education Act (Official Gazette No. 30/2009, 24/2010, 22/2013, 25/2018 and 69/2022)</p> <p>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	49,7	2335
Vocational part – theoretical	14,5	685
Vocational part – practice/exercises	35,8	1682
<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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