



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

Brodski električar

(042234)

In the original language.

2. Translated title of the certificate (EN)⁽¹⁾**Ship's electrician**⁽¹⁾ 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 using and drafting documentation in foreign (English) language
- Apply basic mathematical knowledge, skills and processes
- Apply basic physical and chemical knowledge within the sustainable community development
- Comprehend geographic processes and fundamental historical knowledge
- Use modern information and communication technology safely and critically
- Apply consistently professional ethics and civic education principles
- Understand basic economic terms and functioning of the economic system
- Foster physical and health culture by exercising regularly in accordance with individual possibilities in order to preserve one's own and other people's health

B) VOCATIONAL COMPETENCES

- Install electrical, signalling, alarm, communication and lightning installations on board
- Control and maintain lighting, signalling and alarm systems, collection lines
- Maintain and repair electrical appliances and appliances on board
- Monitor the commissioning of electric motors and generators
- Maintain and monitor the work of electric motors and generators
- Monitor the waveform, spectral response, phase shift, frequency and voltage in the power grid
- Monitor, maintain and replace worn-out battery units
- Connect the ship to mainland power at the port during anchorage according to the prescribed protocol, with the prior implementation of necessary preparatory actions
- Monitor the protection system against electric shock
- Install, service and maintain onboard sonar, radar, communication, navigation, computer, GPS and AIS systems
- Comply with international and national legal regulations
- Use English in speech, electronic and written communication in order to perform activities
- Provide medical first aid
- Implement all occupational safety measures and protect people, tools, devices and the environment

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

The ship's electrician works on a boat in service and in shipyards of larger, medium and smaller vessels, in repair shipyards and in services within marinas and ports. Self-employment is possible by setting up a trade.

5. Official basis of the certificate

<p>Name and status of the body awarding the certificate The certificate is issued by the secondary education institution (vocational education and training school).</p>	<p>Name and status of the national authority providing accreditation/recognition of the certificate Ministry of Science and Education Donje Svetice 38 10 000 Zagreb www.mzo.hr</p>
<p>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)</p>	<p>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).</p>
<p>Level of qualifications Level 4.2. in the Croatian Qualifications Framework</p>	<p>Access to next level of education/training Access to higher level of qualification in accordance with the Croatian Qualifications Framework.</p>

6. General data of acquiring the certificate

Description of vocational education and training received	Percentage of total programme (%)	Total number of hours
General education part	50,9	2233
Vocational part – theoretical	28,0	1230
Vocational part – practice/exercises	21,0	921
Duration of education		4 years

Entry requirements: Completion of primary education

More information available at:

Ministry of Science and Education (www.mzo.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).

(¹) 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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