

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

**Zavarivač/Zavarivačica**  
(321021)

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

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

**Welder**

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

## 3. Profile of skills and competences

## A) GENERAL EDUCATION COMPETENCES

- Effective oral and written communication in the Croatian language
- Basic communication in a foreign language
- Mathematical literacy, application of basic mathematical procedures, measurements and calculations
- Understand basic physical and chemical phenomena relevant to materials processing procedures
- Use basic digital tools and devices
- Develop responsibility, work habits and team collaboration skills
- Cultivate tidiness, precision and a positive attitude towards work
- Care for personal health and hygiene

## B) VOCATIONAL COMPETENCES

- Plan the execution of the welding process for a specific task
- Prepare, inspect and protect both the material and the work area prepared for welding
- Set arc welding parameters according to the WPS
- Weld the fillet, butt and pipe joint using the electric arc welding process according to the WPS
- Weld using the selected arc welding process
- Weld the selected base material using the electric arc welding process: steel, stainless steel, cast iron, non-ferrous metals and their alloys
- Set the parameters of gas welding according to the WPS
- Weld the butt and pipe joint using the gas welding process according to the WPS
- Weld using the selected gas welding process
- Weld the selected base material using the gas welding process: steel, cast iron, non-ferrous metals and their alloys
- Clean the welded joints
- Perform visual inspection and dimensional control of welded joints
- Apply regulations concerning work safety, fire protection and environmental protection

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

Welders make or repair metal products or equipment by using heat to join multiple metals, such as steel, cast iron, non-ferrous metals, and their alloys. Depending on the metals they are joining, welders may use different welding tools and equipment. Welding is a technology that is widely used in almost all industries, so a welder can work in various industries from energy, process industry, manufacturing engineering, military industry, transportation, metal structures, to medicine, space programmes, and art.

## 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, Education and Youth Donje Svetice 38 10000 Zagreb <a href="http://www.mzom.gov.hr">www.mzom.gov.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) 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)</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 (sufficient).</p>
<p><b>Level of qualifications</b></p> <p>Level 4.1 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	27,15	886
Vocational part – theoretical	25,80	842
Vocational part – work-based learning	47,05	1536
<b>Duration of education</b>		3 years

**Entry requirements:** The completion of primary education

**More information available at:**

Ministry of Science, Education and Youth ([www.mzom.gov.hr](http://www.mzom.gov.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 Europass Centre in Croatia ([www.europass.hr](http://www.europass.hr)) at the

Agency for Mobility and EU Programmes ([www.ampeu.hr](http://www.ampeu.hr)).

**(\*) Explanatory note**

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.

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