

## 1. TITLE OF THE CERTIFICATE AND OF THE EDUCATION PROGRAMME (SL) <sup>(1)</sup>

**Spričevalo o zaključnem izpitu po izobraževalnem programu:**

**MEHATRONIK OPERATER**

(ID: 193683)

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

## 2. TRANSLATED TITLE OF THE CERTIFICATE AND OF THE EDUCATION PROGRAMME (EN) <sup>(1)</sup>

**School-leaving certificate:**

**INDUSTRIAL MECHANIC**

<sup>(1)</sup> This translation has no legal status.

## 3. ACQUIRED KNOWLEDGE, SKILLS AND PROFESSIONAL COMPETENCES

The holder of the certificate is qualified to:

- carry out supervisory and control functions on the machine or production line;
- manage and set process, electrical and mechanic sizes and parameters;
- control more complex work process parameters, and chain the machine controller by way of synoptic diagrams and entry-exit control elements;
- identify the load of machine elements and their function in the machine;
- monitor and record required measurement parameters of the machine or line, identify basic control components of the machine;
- prepare the machine for commissioning, detect and locate machine errors, repair machine breakdown and replace damaged components with original spare parts;
- monitor machine functioning, fix and insert material in the machine, control work process, repair the machine in the event of a simple standstill in the work process, perform basic maintenance work;
- examine a general condition of the machine and energy sources, carry out basic maintenance work (machine cleaning and lubrication);
- use computer applications, assess costs and provide for a well-regulated work environment;
- use standards, comply with rules and regulations on health and safety at work and environment protection;
- elaborate technical documentation and technical instructions by employing ICT technologies.

Optional:

- arrange, assemble and disassemble simple mechatronic systems.
- maintain and repair mechatronic systems.

In addition, the holder of the certificate also upgraded his/her key professional skills and competences with key general knowledge and skills in line with national standards.

## 4. RANGE OF OCCUPATIONS ACCESSIBLE TO HOLDER OF THE CERTIFICATE

The holder of the certificate can find employment at industry or craft trade where mechatronic systems are in place.

### <sup>(1)</sup> Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any legal status in itself. The format of the description is based on the following texts: Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications, Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers.

More information available at: <http://europass.cedefop.eu.int>

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| 5. OFFICIAL BASIS OF THE CERTIFICATE   |   |
|--|---|
| <p><b>Name and status of the body awarding the certificate</b></p> <p>The institution is accredited with the Ministry of Education, Science and Sport.</p>   | <p><b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b></p> <p>Ministry of Education, Science and Sport<br/>Masarykova 16<br/>SI-1000 Ljubljana<br/>www.mizs.gov.si</p> |
| <p><b>Level of the certificate (national or international)</b></p> <p>Upper Secondary Vocational Education<br/>Slovenian Qualification Framework: SOK 4<br/>European Qualification Framework: EQF 4<br/>ISCED 2011: 353</p>  | <p><b>Grading scale</b></p> <p>5 – excellent<br/>4 – very good<br/>3 – good<br/>2 – sufficient</p>  |
| <p><b>Access to next level of education/training</b></p> <p>A successfully completed education programme within secondary vocational education enables entrance into corresponding education programmes of vocational-technical education. After a certain number of years of work experience, it also enables one to pass a suitable master craftsman or foreman or shop manager exam.</p>  | <p><b>International agreements</b></p> <p>The Republic of Slovenia has concluded agreements on the recognition of education with individual countries. The relevant information is available at ENIC/NARIC.</p>                     |
| <p><b>Legal basis</b></p> <p>Organisation and Financing of Education Act<br/>Vocational and Technical Education Act</p>  |   |
| 6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE   |   |
| Time of the education  | 3 years   |
| Number of credits <sup>1</sup>   | 180 credits   |
| General education  | 54 credits  |
| Professional education   | 50 credits  |
| Practical education at the employer <sup>2</sup>   | 37 credits  |
| Extracurricular activities   | 7 credits   |
| Open curriculum <sup>3</sup>   | 30 credits  |
| Final examination  | 2 credits   |
| <p><b>Entry requirements</b></p> <p>The programme can be attended by anyone who has completed the programme of primary education or lower vocational education or equivalent education in line with previous regulations.</p>  |   |
| <p><b>Additional information</b></p> <ul style="list-style-type: none"> <li>– Ministry of Education, Science and Sport (<a href="http://www.mizs.gov.si">www.mizs.gov.si</a>): Education programme and description of education and schooling in Slovenia</li> <li>– National Reference Point for Vocational Qualifications - NRP (<a href="http://www.nrpslo.org">www.nrpslo.org</a>)</li> <li>– National Europass Centre (<a href="http://www.europass.si">www.europass.si</a>)</li> </ul> |   |

<sup>1</sup> One credit equals 25 hours of candidate's work.

<sup>2</sup> The individual learning contract increases the scope of workplace-based education with the employer up to 53 weeks.

<sup>3</sup> Goals of the open curriculum are defined by schools in cooperation with companies on a local/regional level.

## 7. MORE DETAILED DESCRIPTION OF EDUCATION

### GENERAL EDUCATION:

1. Slovene (12 credits)
2. Mathematics (12 credits)
3. Foreign language (9 credits)
4. Art (2 credits)
5. Natural sciences (6 credits)
6. Social sciences (6 credits)
7. Physical education (7 credits)

### PROFESSIONAL EDUCATION:

#### Mandatory Modules (44 credits)

1. Occupational technical communication (4 credits)
2. Materials and processing in the occupation (3 credits)
3. Construction elements (3 credits)
4. Making of electric circuits (6 credits)
5. Use of control devices (6 credits)
6. Connecting electric engines (6 credits)
7. Mechatronic systems (9 credits)
8. Production processes (7 credits)

#### Optional Modules (6 credits)

9. Assembly and testing of mechatronic systems (6 credits)
10. Maintenance and repair of mechatronic systems (6 credits)

### OPEN CURRICULUM (30 credits):

The open curriculum is determined by the school in cooperation with companies on the local level.

### PRACTICAL EDUCATION:

1. Practical training in school
2. Practical training through work placement

### EXTRACURRICULAR ACTIVITIES (7 credits):

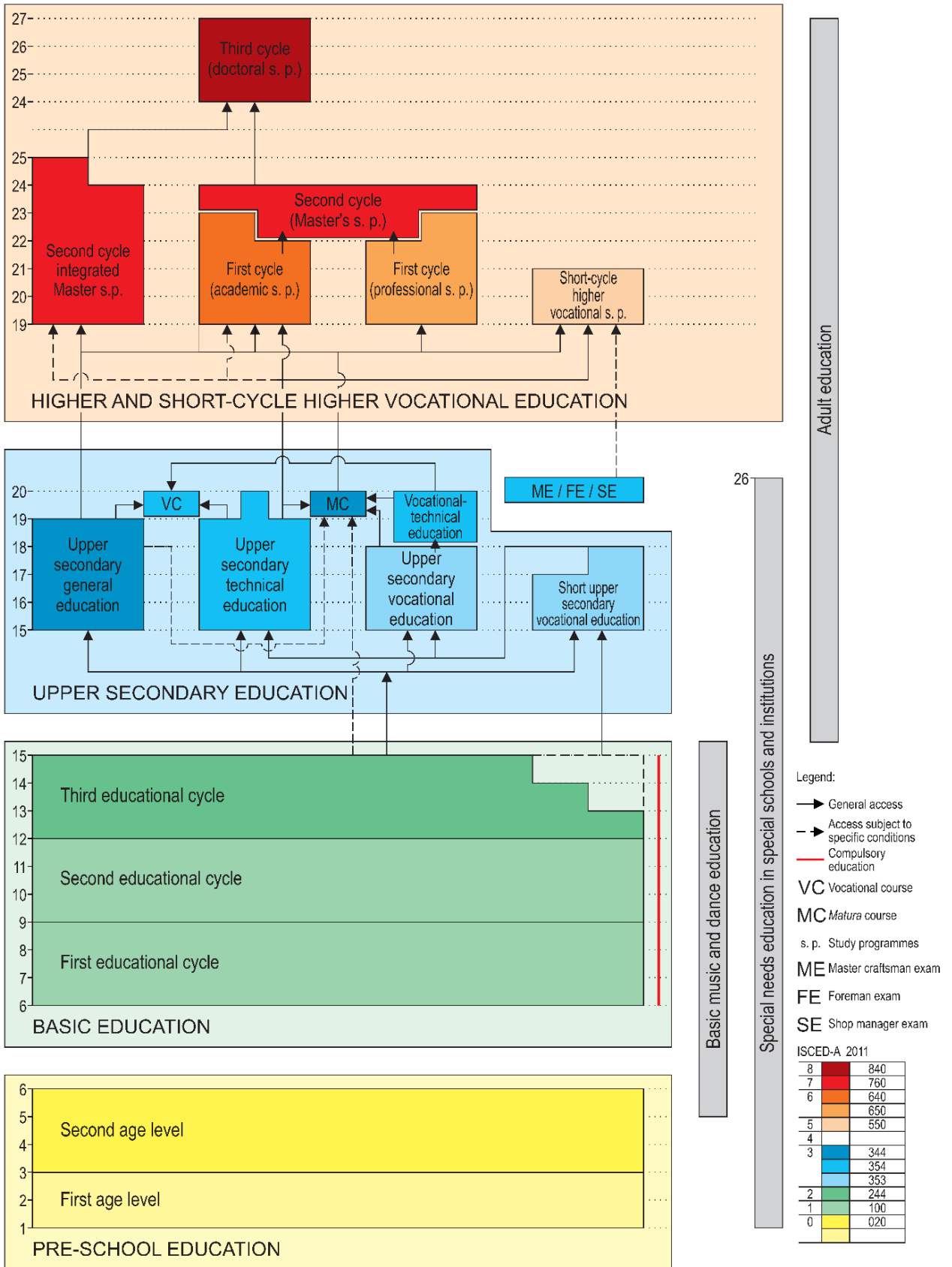
Extracurricular activities involve compulsory activities, programme-related content and electives.

### FINAL EXAMINATION:

- written and oral examination of Slovenian language,
- presenting and defending a project or service (2 credits):

### OTHER NOTES:

# STRUCTURE OF THE EDUCATION SYSTEM IN THE REPUBLIC OF SLOVENIA



From school/academic year 2016/2017