

1. TITLE OF THE CERTIFICATE AND OF THE EDUCATION PROGRAMME (SL) ⁽¹⁾**Spričevalo o poklicni maturi po izobraževalnem programu:****KEMIJSKI TEHNIK**

(ID: 321363)

⁽¹⁾ In native language.**2. TRANSLATED TITLE OF THE CERTIFICATE AND OF THE EDUCATION PROGRAMME (EN) ⁽¹⁾****School-leaving certificate:****CHEMICAL TECHNICIAN**⁽¹⁾ This translation has no legal status.**3. ACQUIRED KNOWLEDGE, SKILLS AND PROFESSIONAL COMPETENCES**

The holder of the certificate is qualified to:

- carry out sampling procedures for raw materials, packaging and products;
- perform routine analytical tests in traditional qualitative and quantitative analytical chemistry;
- conduct routine analytical tests by way of several analytical chemistry instrumental techniques;
- carry out several chemical syntheses in a lab;
- perform and control basic mechanical operations;
- conduct and monitor basic separation processes;
- use appropriate measurement and control procedures and instruments;
- comply with requirements and regulations for the provision of a safe system of work and environment protection in the industry and chemical laboratory.

Optional:

- carry out requisite quality assurance systems during analytical testing;
- independently conduct basic chemical and physical analytical methods.
- carry out testing methods and polymer characterisation;
- master polymer chemistry basics and classification of polymers in line with different criteria;
- be familiar with chemical, physical and processing features of polymers;
- manage polymer processing technologies and be familiar with polymer processing machines.
- perform basic operations in chemical processes techniques;
- perform works in galvanotechnics.
- have knowledge of paper features, raw materials in paper manufacturing, substance conditioning, paper machines, paper coating, paper after-treatment and processing in paper industry.
- employ physical quantity meters in chemical and paper industry.

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 chemical, paper or related industries in different areas ranging from manufacturing preparation, manufacturing, analysis and development; development, research and other institutions.

^(*) 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>Name and status of the body awarding the certificate</p> <p>The institution is accredited with the Ministry of Education, Science and Sport.</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate</p> <p>Ministry of Education, Science and Sport Masarykova 16 SI-1000 Ljubljana www.mizs.gov.si</p>
<p>Level of the certificate (national or international)</p> <p>Upper Secondary Technical Education Slovenian Qualification Framework: SOK 5 European Qualification Framework: EQF 4 ISCED 2011: 354</p>	<p>Grading scale</p> <p>5 – excellent 4 – very good 3 – good 2 – sufficient</p>
<p>Access to next level of education/training</p> <p>Education programme completed with the Vocational Matura exam enables enrolment to higher vocational and professional study programmes. Passing an additional General Matura exam is required to enrol to one of the university study programmes, which allow this possibility.</p>	<p>International agreements</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 - the National Academic Recognition Information Centre.</p>
<p>Legal basis</p> <p>Organisation and Financing of Education Act Vocational and Technical Education Act</p>	
6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE	
Time of the education	4 years
Number of credits ¹	240 credits
General education	100 credits
Professional education	86 credits
Practical education at the employer	6 credits
Extracurricular activities	14 credits
Open curriculum ²	30 credits
Vocational matura	4 credits
<p>Entry requirements</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>Additional information</p> <ul style="list-style-type: none"> – Ministry of Education, Science and Sport (www.mizs.gov.si): Education programme and description of education and schooling in Slovenia – National Reference Point for Vocational Qualifications - NRP (www.nrpslo.org) – National Europass Centre (www.europass.si) 	

¹ One credit equals 25 hours of candidate's work.

² Goals of the open curriculum are defined by schools in cooperation with companies on a local/regional level.

7. A DETAILED DESCRIPTION OF EDUCATION

GENERAL EDUCATION :

1. Slovene (24 credits)
2. Mathematics (19 credits)
3. Foreign language (20 credits)
4. Art (3 credits)
5. History (5 credits)
6. Geography or Sociology or Psychology (3 credits)
7. Physics (6 credits)
8. Biology (3 credits)
9. Physical education (14 credits)

PROFESSIONAL EDUCATION:

Mandatory Modules (72 credits)

1. General and inorganic chemistry (7 credits)
2. Physical chemistry (9 credits)
3. Organic chemistry (9 credits)
4. Chemical computing (4 credits)
5. Analytical laboratory techniques (17 credits)
6. Chemical techniques (12 credits)
7. Environmental protection technology (3 credits)
8. Chemistry IT (4 credits)
9. Entrepreneurship and marketing (3 credits)
10. Materials (4 credits)

Optional Modules (14 credits)

11. Analytical chemistry (14 credits)
12. Polymer materials and technologies (14 credits)
13. Chemical and technological processes (11 credits)
14. Paper technology (11 credits)
15. Installation and process management in the industry (3 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 at the employer

EXTRACURRICULAR ACTIVITIES (14 credits):

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

VOCATIONAL MATURA:

Mandatory part:

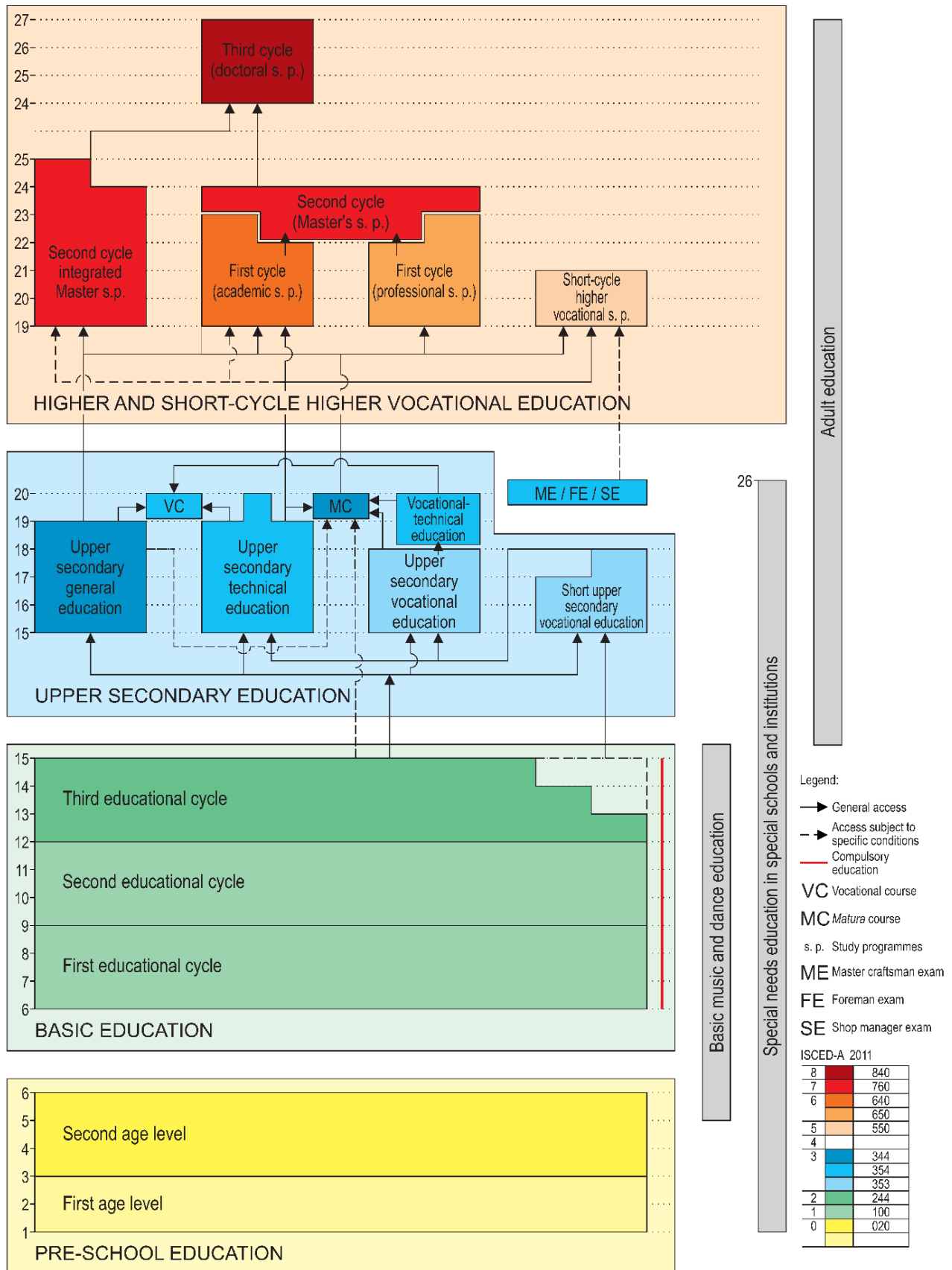
- written and oral exam of Slovenian language,
- written and oral exam in Chemistry.

Optional part:

- written and oral exam in a Foreign language or Mathematics,
- presenting and defending a project or service (4 credits):

OTHER NOTES:

STRUCTURE OF THE EDUCATION SYSTEM IN THE REPUBLIC OF SLOVENIA



From school/academic year 2016/2017