

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

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

**METALURG**

(ID:105161)

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

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

**School- leaving certificate:**

**METALLURGIST**

(ID:105161)

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

## 3. ACQUIRED KNOWLEDGE, SKILLS AND PROFESSIONAL COMPETENCES

The holder of the certificate is qualified to:

- treat thermally, provide for deep and surface consolidation, convert and cast metals and alloys in the light of product and technology documentation;
- manage, control and prepare machines, appliances, tools and aids for the management of metallurgical and processing activities;
- provide for preventive maintenance of furnaces, devices and tools as well as cooperate in repair and maintenance of the smelting equipment;
- identify and remedy causes for the emergence of errors and disorders in metallurgical and processing procedures;
- complete requisite records of hours worked, work and technology documentation as well as documents about the state of furnaces and devices for smelting;
- employ measurement and control devices, tools and machines as well as control the process of material analysis;
- check and prepare transport and manipulation devices and secondary installations;
- elaborate, read and understand simple technical documentation;
- carry out protection measures for safe work and actively care for one's health;
- be positively disposed towards the measures aimed at pollution reduction, environment protection and rational use of energy and materials;
- employ modern IT and user programmes in the occupational field (word and chart processor, e-mail, programmes for machine management, diagnostic devices, production or work monitoring);
- understand the role of entrepreneurship, cost and calculation management;

Optional:

- select, manage and control appropriate metallurgical procedures for metal and alloy conversion in the light of product and documentation requirements;
- manage and control melting and foundry casting processes of ferrous and non-ferrous metals and alloys, prepare melt for foundry casting, manufacture of forms and cores as well as keep appropriate technology documentation;
- select appropriate thermal treatment in the light of product and documentation requirements as well as control thermal treatment of metals;
- manage and control metal forging processes (pressure casting, sand casting, mould casting, continuing casting, centrifugal casting...);
- manage and control metal smelting processes (inset storage, smelting, alloyage, melt purification, degassing, desulphurization, slag removal, modification);
- manage forging and blending technologies and procedures as well as handle forged products;
- manage rolling technologies and procedures as well as handle rolling products.

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:

companies involved in extraction and processing of metal materials, such as foundries, aluminium industry, industry of non-ferrous metals as well as metal processing industry and automotive industry, or at sole traders pursuing foundry activities and thermal treatment of metals, different posts.

### <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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## 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 Models in Specialist Education (25 credits)

1. Occupational technical communication (4 credits)
2. Knowledge of materials and their analysis (7 credits)
3. Organization and administration (3 credits)
4. Knowledge of metallurgical processes and processing technologies (11 credits)

#### Optional Models in Specialist Education (25 credits)

5. Technology of metallurgical transformation processes (13 credits)
6. Technology of metallurgical smelting and foundry casting (13 credits)
7. Thermal processing (6 credits)
8. Foundry casting (6 credits)
9. Smelting (6 credits)
10. Forging (6 credits)
11. Rolling (6 credits)

### OPEN CURRICULUM (28 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 (6 credits):

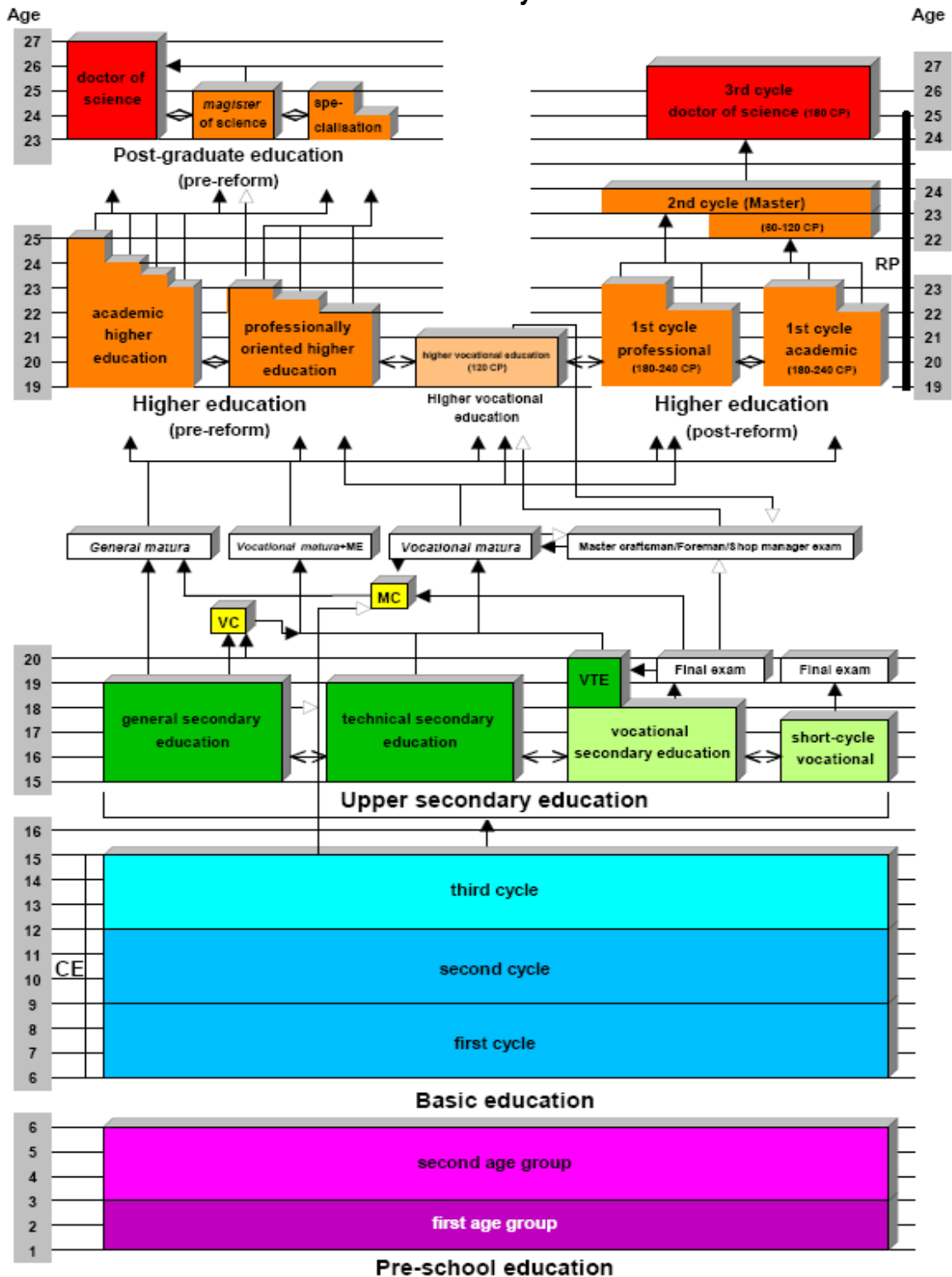
Extracurricular activities involve compulsory activities, programme-related content and electives.

### FINAL EXAMINATION:

- written and oral examination in Slovene
- presenting and defending a project or service (2 credits)

### OTHER NOTES:

## The Structure for the Education System in Slovenia 2010/11



**Legend:** CE - compulsory education    RP - study programmes according to EU directives (regulated professions)    CP - credit points  
 ← general access    ← access under certain conditions    VTE - vocational-technical education    VC - vocational course  
 ↔ transfer    MC - matura course    ME - additional exam in one matura subject