

## 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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| 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/><a href="http://www.mss.gov.si/">http://www.mss.gov.si/</a></p> |
| <p><b>Level of the certificate (national or international)</b></p> <p>Secondary vocational education<br/>European classification ISCED 3<br/>National classification<sup>1</sup> KLASIUS-SRV: 14001<br/>KLAISUS-P: 5214</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 - the National Academic Recognition Information Centre.</p>          |
| <p><b>Legal basis</b></p> <p>- Organisation and Financing of Education Act (Uradni list RS, no. 16/07 and 36/08)<br/>- Vocational and Technical Education Act (Uradni list RS, no. 79/06)</p>  |   |
| 6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE   |   |
| Time of the education  | 3 years   |
| Number of credits <sup>2</sup>   | 180 credits   |
| General education  | 54 credits  |
| Professional education   | 50 credits  |
| Practical education at the employer <sup>3</sup>   | 40 credits  |
| Extracurricular activities   | 6 credits   |
| Open curriculum <sup>4</sup>   | 28 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>- <a href="http://www.mss.gov.si/">Ministry of Education, Science and Sport (http://www.mss.gov.si/)</a>: Education programme and description of education and schooling in Slovenia</li> <li>- <a href="http://www.nrpslo.org">National Reference Point for Vocational Qualifications - NRP (http://www.nrpslo.org)</a></li> <li>- <a href="http://www.europass.si">National Europass Centre (www.europass.si)</a></li> </ul> |   |

<sup>1</sup> Classification system in education and training – KLASIUS (Official Journal of the Republic of Slovenia, No. 46/06) comprises two sub-systems: Classification of activity types/education and training results (KLASIUS-SRV) and Classification of activity areas/education and training results (KLASIUS-P).

<sup>2</sup> One credit equals 25 hours of candidate's work

<sup>3</sup> The individual learning contract increases the scope of workplace-based education with the employer up to 53 weeks.

<sup>4</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 (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 Modules (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 of Slovenian language
- presenting and defending a project or service (2 credits):

### OTHER NOTES:

# STRUCTURE OF THE EDUCATION SYSTEM IN THE REPUBLIC OF SLOVENIA

