

---

# Metalurg / metalurginja

---

## Selected qualifications

Name of qualification	Metalurg / metalurginja
Translated title (no legal status)	Metallurgist
Type of qualification	Srednja poklicna izobrazba
Category of qualification	Izobrazba
Type of education	Upper secondary vocational education
Duration	3 years
Credits	180 credits
Admission requirements	<ul style="list-style-type: none"><li>• Elementary school education or</li><li>• lower vocational education, or</li><li>• equivalent education under previous regulations.</li></ul>
ISCED field	Field Tehnika, proizvodne tehnologije in gradbeništvo
ISCED subfield	subfield metalurgija, strojništvo in kovinarstvo

## Qualification level

SQF 4  
EQF 4

## Learning outcomes

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.

## Assessment and completion

Students' vocational abilities and skills and the fulfilment of conditions to obtain credits in accordance with the relevant education programme are established through verification and assessment. Assessment of students also takes into account non-formally acquired knowledge, which must be adequately demonstrated. Students are assessed using grades from 5 (excellent) to 1 (inadequate).

## Progression

Students may progress to a higher year if at the end of the academic year they achieve a positive score in all general education subjects and technical modules for the year as set out in the school's operational curriculum, and have completed all extracurricular activities and practical on-the-job training, or progress on the basis of a programme faculty decision.

For students with individual learning agreements, passing an intermediate test is a condition for progression from the second year to the third year.

## Transitions

Secondary technical, vocational or vocational-technical education; master craftsman/foreman/shop manager examination (SQF level 5).

## Condition for obtaining certificate

In order to complete the education and obtain the qualification, the student/apprentice must successfully pass with positive grades:

- general education subjects,
- mandatory professional modules,
- one of the optional professional modules,
- open part of the open curriculum.

In addition, he/she must complete:

- other forms of extracurricular activities (active citizenship and interest activities),
- obligations in practical training through work placement,
- intermediate test (applies to apprentice form of education and students with an individual learning contract in the school form of education),
- final exam.

The final exam includes:

- written and oral examination of Slovenian language,
- presenting and defending a service

## Awarding body

Vocational and technical secondary schools and adult education institutions.

URL

<https://paka3.mss.edus.si/registriweb/ProgramPodatki.aspx>

---