
Tehnik računalništva/tehnica računalništva

Selected qualifications

Name of qualification	Tehnik računalništva/tehnica računalništva
Translated title (no legal status)	Computer technician
Type of qualification	Srednja strokovna izobrazba
Category of qualification	Izobrazba
Type of education	Upper secondary technical education
Duration	2 years
Credits	120 credits

Admission requirements

The programme can be attended by anyone who has completed the programme of secondary vocational education and acquired one of the following titles:

- electrician, electrician/energetic engineer, electrician/electronic engineer, industrial mechanic, computer operator, car mechatronic, car mechanic or
- has completed another secondary vocational programme and has a minimum of three years experience in computer science or
- has obtained equivalent education in line with previous regulations.

ISCED field

Field
Informacijske in komunikacijske tehnologije (IKT)

ISCED subfield

subfield razvoj in analiza programske opreme in aplikacij

Qualification level

SQF 5
EQF 4

Learning outcomes

The holder of the certificate is qualified to:

- read, plan, elaborate, monitor and amend technical documentation in line with requisite instructions and by employing ICT;
- the use of organization of work concepts and economics in a professional area;
- programme simple applications on programmable devices as well as programme, assemble and wire programmable relays;
- set up necessary operating system settings and provide basic support to users when employing user software;
- compile, maintain, rectify errors and service computer hardware;
- lay and wire different forms of electric and communication installations, connect users and carry out basic maintenance works;
- connect electric installation elements in switching, distribution and outlet-coupling devices as well as select and connect electrical protection;
- set up, maintain, protect and provide the restoration of network services;

Optional:

Multimedia technology equipment

- record, archive and reproduce sound, image and video in digital format;
- design preparation of photos and videos;

Management of ICT systems

- advise on the use of e-certificates and signatures;
- protect IC systems against unauthorised access and dangerous programmes;

IT software management

- set up and manage system and user software;
- cooperate with users, suppliers and customers;

Planning and development of software applications

- plan the development of simple computer programmes;
- make and test small parts in big programmes;

Advanced use of databases

- archive and restore databases, launch complex searches;
- draw up server procedures and triggers for applying business rules and dealing with exceptions;

Computer design

- use digital photo capture devices;
- design web sites and other documents for the electronic media;

Use of microprocessor devices

- plan and programme microprocessor wiring;
- conduct control, capture and regulation by way of microprocessor wiring;

Audio visual communications

- manage computer hardware and software for recording/editing/reproduction of audio-visual contents;
- use computer formats to record text, graphic, video, sound and other media contents;

Planning automated units

- make and maintain simple pneumatic, pneumatic-electric and hydraulic controls;
- programme, assemble, set up, monitor and control the operation, carry out measurements and rectify errors in simple automated units.

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).

Transitions

Matura/vocational course, higher vocational education (SQF level 6), professional higher education (SQF level 7) and academic higher education (SQF level 7)

Condition for obtaining certificate

Students must successfully (i.e. with passing grades) complete all general education subjects, compulsory vocational modules, elective vocational modules and the open part of the curriculum. They must also complete extracurricular activities and work placement requirements and pass the vocational matura examination. The vocational matura comprises a compulsory section (written and oral examinations in Slovene and computer science) and an elective section (written and oral examination in a foreign language or mathematics and a product/service with oral presentation).

Awarding body

Vocational and technical secondary schools and adult education institutions.

URL

<https://paka3.mss.edus.si/registriweb/ProgramPodatki.aspx?ProgramId=6446>
