

BULGARIA - ADDITIONAL INFORMATION TO MAPPING

Renewable Energy Sources (RES)

General Information

The mapping was made on the grounds of:

1. State Educational Requirements for acquiring the professional qualifications of ASSEMBLER FOR POWER EQUIPMENT AND INSTALLATION – Specialty RENEWABLE ENERGY SOURCES (Code of the profession according to the National Classification of Professions 5220408);
2. State Educational Requirements for acquiring the professional qualifications of TECHNICIAN FOR POWER EQUIPMENT AND INSTALLATION – Specialty RENEWABLE ENERGY SOURCES (Code of the profession according to the National Classification of Professions 5220308);
3. Curriculum for specialty RENEWABLE ENERGY SOURCES studied at John Atanasov Vocational High School of Electronics, Sofia.

Legal name of the programme:

Renewable Energy Sources (RES)

According to the Bulgarian Law on Public Education this is a training programme approved by the Ministry of Education, Youth and Science.

The training takes place at John Atanasov Vocational High School of Electronics – Sofia.

Duration

The duration of the training course is 5 years, after completing 7th class.

Liability to charges

The training is free of charge.

Position of national vocational training system

The vocational training under this programme starts after completing the 7th class of the general education system. At the beginning of their training the trainees usually are 14 years old.

After completing 12th class (at the age of 19) the students acquire secondary education and the professional qualification of **Technician for Renewable Energy Sources - level 3 according to the Bulgarian national classification, that corresponds to level 4 according to the European Qualification Framework (EQF)**.

After finishing secondary vocational education there are various possibilities for continuing the education at colleges, higher schools and universities.

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Learning Locations

School: John Atanasov Vocational High School of Electronics - Sofia, full-time education, daytime classes.

Organisation responsible for this VET-programme

Ministry of Education, Youth and Science.

www.minedu.government.bg

Preliminary - Prerequisites

The precondition to start this training programme is completed 7th class at the general education system (Certificate for completed 7th grade) and admission test in Bulgarian Language & Literature and Mathematics. The total admission result consists of both tests marks, and the marks in physics and mathematics from the Certificate for completed 7th grade.

Additional competences which are part of this programme

The programme includes:

A. General education

Includes the following subjects: Bulgarian language and literature; two foreign languages (one of them English – intensive teaching); mathematics; Informatics; IT; History and civilization; Geography and economics; Psychology and logic; Moral and law; Philosophy; World and personality; Biology; Physics and astronomy; Chemistry and environmental protection; Music; Arts; Physical education and sports.

B. Compulsory vocational training, consisting of:

B.1. General professional training

Includes the following modules: Health and safety at work; Economics; Entrepreneurship; Business-English; Technical mechanics and machine elements; Applied electrical engineering; Electronics and transformer engineering; Automation principles; Technical drawing; Material science; Thermodynamics; Hydrodynamics; Fitter's operations; Technologies for making installations; Technologies for assembly and repair.

B.2. Special professional training

Includes the following modules: Introduction into the profession; Measurements in the heating technology; Wind energy equipment and installations; Hydrokinetic equipment and installations; Geothermal equipment and installations; Photovoltaic systems; Solar power stations; Equipment and installations for producing energy of vegetable biomass; Equipment and installations for producing energy of waste

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biomass; Design of installations using energy from hydroelectric power stations; Lifting and hoisting equipment; Industrial practice.

Examinations

After successful completion of 12th class the students pass state school-leaving examinations for obtaining secondary education and state certification examinations (theory and practice) for acquiring a 3rd level of professional qualification according to the Bulgarian national classification, corresponding to 4th level of EQF. These examinations take place according to National Examination Programmes approved by the minister of education and science

Certificates

A Certificate of Professional Qualification is issued for proving the acquired 4th level of professional qualification.

What the certificates entitle to

The Certificate of Professional Qualification entitles to bear the title “Technician for Renewable Energy Sources” and to practise this job.

VET-program as prerequisite for further training

There is no relation between the vocational training at the secondary school and the higher education. At the moment, no validation and recognition of knowledge and competences acquired at the secondary school is possible at the higher schools and universities. A prerequisite for the further training in the specialty at higher schools is a diploma for completed secondary education. It may be obtained both at schools of general education and at vocational secondary schools.