**ABSTRACT OF SECONDARY PROFESSIONAL EDUCATIONAL PROGRAM
11.02.01 RADIO-ENGINEERING**

**1. Name of educational program**Training direction – **11.02.01 Radio-engineering**
Qualification: **radio-technician

2. Brief description of the program**
**Objective:** to teach students to subjects of Mathematics, natural Science, subjects of professional cycle as well as of professional modules, to receive secondary professional education that enables graduates to work successfully with the design and technological documentation, to develop technological processes of radio equipment production, to perform input inspection of functional units, parts and materials in accordance with technological process, to make adjustment of radio systems, to perform standard and certification tests, to carry out the metrological verification of products, to perform calculations of standard electric circuits and electronic devices.

 **Duration of training**: 3 years 10 months based on General basic education (full-time); 2 years 10 months based on General secondary education (full-time).

**3. The scope and object characteristics of graduates’ professional activity**

**Graduates’ professional activity area:**− organization and carrying out of works on assembling and adjustment of radio technical systems, devices and units.

 **Graduates’ professional activity objects:**
− components and functional blocks of electronic equipment products;
− electric radio materials and their components;
− technological processes for assembling and installation of radio-electronic products;
− measuring equipment;
− assembly work equipment;
− technical documentation;
− teamwork.

**Graduates’ types of activity:**− assembling and installation of radio systems, devices and units in accordance with the technical documentation;
− setting and adjustment of electronic systems, devices and units;
− performance of standard and certification tests of electronic components and units.

 **4. Basic organizations**

Training is realized for the Federal state unitary enterprise "Instrument-making plant" in the framework of the program "personnel training" as well as for other enterprises in Trekhgorny and highland area of Chelyabinsk region that connected with production, maintenance and repairing of radio equipment, computers and means of communication where graduates can work as assemblers of radio equipment, fitters of electronic equipment and appliances, inspectors of radio-electronic equipment and devices.
 **5. Brief description of the curriculum**
The curriculum is developed in accordance with the Federal state educational standard 3+ Secondary professional education for the training direction 11.02.01 «Radio-engineering» (qualification - radio technician). Special attention is paid to the study of following subjects and professional modules: electrical engineering, electroradiology, Economics, assembly and installation of radio systems, devices and blocks in accordance with technical documentation, adjustment of radio technical systems, devices and units, carrying out standard and certification tests of electronic components and units.

**6. Practice**

in case of 3 years 10 months based on General basic education (full-time):

− practical training for students is held for 6 weeks during the 4th semester in the laboratories of the TTI NRNU MEPhI and aimed on forming primary skills;

− industrial trainings are held for 9 weeks during the 6th semester, for 4 weeks during the 7th semester, for 4 weeks during the 8th semester at the FSUE "Instrument-making plant" and are aimed on obtaining and mastering professional skills in real industrial conditions;

− undergraduate training is held for 4 weeks during the 8th semester at the FSUE "Instrument-making plant" and is aimed on studying, gathering and analyzing available documents and information concerning the subject of a graduate’s final qualification work.

in case of 2 years 10 months based on General secondary education (full-time):

− practical training for students is held for 6 weeks during the 2nd semester in the laboratories of the TTI NRNU MEPhI and is aimed on forming primary skills;

− industrial trainings are held for 9 weeks during the 4th semester, for 4 weeks during the 5th semester, for 4 weeks during the 6th semester at the FSUE "Instrument-making plant" and are aimed on obtaining and mastering professional skills in real industrial conditions;

− undergraduate training is held for 4 weeks during the 6th semester at the FSUE "Instrument-making plant" and is aimed on studying, gathering and analyzing available documents and information concerning the subject of a graduate’s final qualification work.