

# STANDARDIZATION, CERTIFICATION AND CERTIFICATION

## IN WELDING PRODUCTION

(name of the discipline)

### ANNOTATION

#### TO THE CURRICULUM OF A HIGHER EDUCATION INSTITUTION

Specialization 1-36 01 06 “ Equipment and technology of welding production ”

Specialty direction \_\_\_\_\_

Specialization \_\_\_\_\_

	Form of higher education		
	Full-time (day)	Correspondence	Part-time abbreviated
Course	<b>IV</b>	<b>V</b>	<b>IV</b>
Term	8	9	8
Lectures, hours	36	6	8
Practical (seminar) classes, hours	12	2	2
Credit, semester	8	9	8
Classroom hours for the academic discipline	48	8	10
Independent work, hours	42	82	80
Total hours of academic discipline / credits	90 / 3		

#### 1. Summary of the academic discipline

The purpose of the discipline is to form students' knowledge, skills and abilities in matters of theoretical and applied metrology, standardization, certification and certification. This will ensure, in combination with other disciplines, the preparation of the student for various types of professional activities: experimental research, technological, organizational, operational, production and management, testing.

#### 2. Learning outcomes

As a result of mastering the discipline, the student must

##### **To know:**

- objects, tasks and types of professional activity related to the implementation of professional functions in metrology, standardization, certification and certification, legislative and legal bases, basic concepts and definitions;

- legal basis for ensuring the uniformity of measurements, standardization, technical standardization and certification in the Republic of Belarus;

- the international and state standardization system of the Republic of Belarus;

- the specifics of Belarusian and Russian standards in the field of welding production;

- quality indicators and methods of their evaluation;

- the procedure for confirming the conformity of products, processes, services (works), personnel competence, management systems;

- legal and legislative bases in the field of technical regulation and standardization of the Eurasian Economic Union.

##### **be able to:**

- use technical regulatory legal acts and regulatory legal acts in the field of technical standardization, metrology, certification, standardization and certification;

- to evaluate product quality indicators

- to use in practice statistical methods of control and quality management of processes and products;

- to draw up documents for conformity assessment of products, processes, services (works), personnel competence, management systems.

##### **own:**

- methods of statistical control and product quality management;

- skills of working with technical regulatory legal acts;

правилами rules, procedures and procedures for confirming the conformity of products, processes, services (works), personnel competence, management systems in welding production.

#### 3. Emerging competencies

SC-3 - Know the methods of normalizing the accuracy of parameters, the basic principles of constructing tolerance and fit systems, the basic standards of interchangeability standards covering tolerance and fit systems for typical types of connections of machine parts and devices, the basics and organization of measuring technical control of parameters, the basics of product certification.

#### 4. Requirements and forms of current and intermediate certification.

The evaluation tools used for the academic discipline are stored at the department.