

# TECHNOLOGY AND EQUIPMENT FOR PRESSURE WELDING

(name of the discipline)

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

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

**Direction of specialty** \_\_\_\_\_

**Specialization** \_\_\_\_\_

	Form of higher education		
	Full-time (daytime)	Correspondence (abbreviated)	Correspondence
Well	3	3	4
Semester	5, 6	5, 6	7
Lectures, hours	68	8	6
Practical lessons, hours	16	4	-
Laboratory classes, hours	16	4	4
Coursework, semester	6	6	7
Exam, semester	5	5	7
Classroom hours for the academic discipline (including hours for managed independent work)	100 (6)	16	10
Independent work, hours	40	124	130
Total hours per academic discipline/ credits	140/3	140/3	140/3

### 1. Brief content of the discipline

The purpose of teaching the discipline is to obtain and master knowledge by students in the field of the physical foundations of various methods of pressure welding, principles of operation, devices and features of the operation of resistance welding equipment, as well as the effective use of the knowledge gained in practical activities.

### 2. Learning outcomes

As a result of mastering the academic discipline, the student must know:

- basics of physical processes occurring during pressure welding; types and methods of pressure welding used in production; features of technological processes and technologies for welding various metals;

be able to:

- choose welding methods and equipment that ensure the quality of the welding process; develop technologies for welding structures in real production conditions;

own:

- method for choosing a rational method of pressure welding of a specific metal structure and calculating the parameters of the welding mode; methods of setting up welding machines for a given mode of operation.

### 3. Formed competencies.

BPK-9 - Know the physical essence, types and methods of pressure welding, be able to develop a technology for welding metals and alloys in production conditions and apply quality control methods for welded joints.

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

When studying the discipline, a module-rating system for assessing knowledge is used. Used assessment tools for the academic discipline are stored at the department.