

# FUSION WELDING EQUIPMENT

(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 \_\_\_\_\_

| Форма получения высшего образования           | Form of higher education |                              |                |
|---|--------------------------|------------------------------|----------------|
|   | Full-time (daytime)      | Correspondence (abbreviated) | Correspondence |
| Well  | 3                        | 3                            | 3, 4           |
| Semester                                      | 5, 6                     | 5, 6                         | 6,7            |
| Lectures, hours                               | 68                       | 12                           | 14             |
| Practical lessons, hours                      | 32                       | 8                            | 8              |
| Laboratory classes, hours                     | 32                       | 8                            | 10             |
| Classroom examination (semester, hours)       | -                        | -                            | 7/ 2 часа      |
| Test, semester                                | 5                        | 5                            | 6              |
| Exam, semester                                | 6                        | 6                            | 7              |
| Classroom hours per academic discipline       | 132                      | 28                           | 34             |
| Independent work, hours                       | 104                      | 188                          | 182            |
| Total hours per academic discipline / credits | 216/6                    | 216/6                        | 216/6          |

#### 1. Brief content of the discipline

The purpose of teaching the discipline is to provide students with knowledge in the field of principles of work, device and features of the operation of welding equipment used in manual, mechanized and automated arc fusion welding; familiarization with the possibilities and prospects of its development, as well as the effective use of the acquired knowledge in practical activities.

#### 2. Learning outcomes

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

##### **know:**

- device and main characteristics of the welding arc power sources, operation features and areas of application of equipment for arc welding and surfacing, electroslag welding and gas-plasma processing;

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

- choose power sources and welding equipment that ensure the efficient passage of welding processes;

- set the required welding modes on the welding equipment;

##### **own:**

- methods for calculating the parameters of fusion welding modes and selecting power sources and equipment for fusion welding.

#### 3. Formed competencies.

SK-6 - Be able to choose fusion welding equipment, power sources and welding modes that ensure the efficient passage of welding processes and the quality of 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.