QUALITY CONTROL METHODS OF WELDED JOINTS

ANNOTATION
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty: 1-36 01 06 Equipment and technology of welding production

	Form of higher education		
	Full-time (daytime)	**Correspondence**	**Correspondence abbreviated**
Well	4	4; 5	4
Semester	7; 8	8; 9	7; 8
Lectures, hours	52	14	14
Laboratory classes, hours	16	8	8
Classroom examination (semester, hours)		9 (2 часа)	
Report, semester	7	8	7
Exam, semester	8	9	8
Classroom hours per academic discipline	68	24	22
Independent work, hours	130	174	176
Total hours per academic discipline / credit units	198/6	198/6	198/6

1. Brief content of the discipline

The purpose of teaching the discipline is to develop students of the specialty 1-36.01.06 "Equipment and technology of welding production" of ideas, knowledge and skills in the composition and capabilities of modern methods of quality control of welded joints, as well as the features of their use in welding production.

2. Learning outcomes

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

know:

- defects in welded joints, their impact on the performance of structures, methods for eliminating defects;
- methods, tools and technologies for non-destructive quality control of welded joints;
- principles of operation of devices for non-destructive quality control;
- safety regulations for the operation of equipment for quality control;
- principles of selection of equipment for testing specific welded structures.

be able to:

- choose non-destructive testing methods to assess the quality of welded joints of metal structures;
- use modern forms of organization of quality control sites in production;
- develop technological charts for the control of welded joints;
- use new progressive methods and means of non-destructive testing.

own:

- methods of selection and substantiation of technological modes of specific methods of non-destructive testing of welded joints;
- methods of safe work during the operation of technical means of non-destructive testing.

3. Formed competencies

Codes of generated competencies	Names of competencies being formed
SC-16	Know the basic methods for assessing the quality of welded joints, the types and causes of defects in welded joints and methods for their prevention

4. Requirements and forms of current and intermediate certification.

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