

TESTING OF WELDED JOINTS AND STRUCTURES

(наименование дисциплины)

COURSE SYLLABUS ABSTRACT

Speciality 6-05-0714-02 Engineering design and production of materials and products made from them

Profiling Equipment and technology for welding production

	Форма получения высшего образования		
	full-time	part-time	part-time abbreviated
Year	3	4	2
Semester	6	7	3
Lectures, hours	34	6	6
Laboratory, hours	16	4	4
Classroom test (semester, hours)	-	7 (2)	3 (2)
Exam, semester	6	7	3
Classroom hours per academic discipline	50	12	12
Independent work, hours	58	96	96
Total hours per academic discipline / credit units	108 / 3		

1. Brief content of the academic discipline

The purpose of the academic discipline is for students to gain knowledge in the field of testing welded joints, materials and structures. Familiarization with the procedure and testing methods, as well as the preparation of certification programs for welding processes and quality control of welding materials.

2. Learning outcomes

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

know:

- types of certification of welding technologies and testing of welded joints;
- requirements and procedure for quality control of welding materials and welded structures;
- main defects detected during testing and the reasons for their occurrence.

be able to:

- draw up testing programs for materials and welded joints;
- evaluate and document test results.

have the skill:

- basic methods of testing welded joints and materials.

3. Competencies being developed

Know the methods of testing welded structures, materials and welded joints, be able to draw up test programs as part of the certification of welding processes, certification of welders and welding filler materials

4. Requirements and forms of current and intermediate certification.

To assess the quality of students' assimilation of educational material, including acquired competencies, ongoing certification is carried out during training sessions based on the results of tests. Interim certification of students is carried out based on the results of the current certification. Intermediate monitoring of academic performance is aimed at ensuring maximum efficiency of the educational process and increasing motivation to study.

Current certification is carried out in the form of defense of laboratory work in oral form and test work in written form.

Interim certification is carried out in the form of an exam in oral and written form