

CONTROL OF PENETRATING SUBSTANCES

ANNOTATION TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-54 01 02 - "Methods and devices for quality control and diagnostics of the state of objects"

Specialization 1-54 01 02 02 - "Non-destructive testing of materials and products"

	Form of higher education		
	Full-time (daytime)	Part-time	Part-time reduced
Well	3		
Semester	6		
Lectures, hours	34		
Practical (seminar) classes, hours	-		
Laboratory classes, hours	16		
Report, semester	6		
Exam, semester	-		
Classroom hours per academic discipline	50		
Independent work, hours	58		
Total hours per academic discipline / credit units	108/3		

1. Brief content of the discipline

The discipline contains the theory of methods and means of capillary control, as well as the control of the tightness of vessels, cylinders, containers of various configurations, welded pipe joints for the presence of surface and through defects.

2. Learning outcomes.

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

know: physical bases, technologies, means of capillary control and tightness control; areas of application of various methods of capillary flaw detection and leak detection;

be able to: develop equipment for control; develop a technology for controlling materials and products with penetrating substances; metrological support of technical means; adjust the equipment and carry out control of materials and products using modern instruments; draw up flow charts for control;

own: the ability to rationally choose methods and means of capillary flaw detection and leak detection methods; universal technical means of control of penetrating substances; methods of information processing when monitoring and diagnosing industrial facilities.

3. Formed competencies:

- SC-21 "Be able to carry out the technical process of control of penetrating substances."

4. Requirements and forms of current and intermediate certification.