

NON-DESTRUCTIVE TESTING IN PRODUCTION

ANNOTATION

TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-38 80 01 Instrumentation

Profiling : Technique and technology of non-destructive testing

II stage of higher education (master's degree)

	Form of higher education		
	Full-time (daytime)	Correspondence	Correspondence abbreviated
Well	1	1	
Semester	2	2	
Lectures, hours	32	8	
Practical (seminar) classes, hours	sixteen	four	
Laboratory classes, hours	-	-	
Classroom hours per academic discipline	48	12	
Exam, semester	2	2	
Independent work, hours	60	96	
Total hours per academic discipline / credit units	108/3		

1. Brief content of the discipline

The purpose of teaching this discipline is to summarize all the knowledge previously gained by students on various methods of non-destructive testing (NDT), to teach them to choose the optimal method (or several methods) of control, depending on the information content and production tasks.

2 . Learning Outcomes

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

know: modern features of technical control and quality management, various options for using NDT methods and tools in the production of materials and products and operation of facilities, the structure and functions of control services at enterprises, issues of metrological support, certification, accreditation, standardization and automation in NDT;

be able to: choose the optimal method and means of NDT for specific industrial facilities, evaluate their capabilities in terms of achieving maximum information content and reliability, organize an NDT service at the enterprise for specific products, objects or materials;

own: understanding of the types and methods of formation of requirements for parameters, equipment and preparation of regulatory documentation and maintenance personnel for NDT in leading industries.

3. Formed competencies

The development of this academic discipline should ensure the formation of the following competencies: SC-6 - Effectively apply methods and means of non-destructive testing in the production process

4. Requirements and forms of current and intermediate certification: tests and tests (oral and written form). In order to be admitted to the exam, the student, in accordance with the curriculum, must complete four practical tasks.