

NON-DESTRUCTIVE TESTING IN PRODUCTION
SUMMARY
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION
Specialty 7-06-0716-03 Instrument Engineering
Profiling: Information systems and technologies of non-destructive testing and diagnostics

	Form of higher education		
	Face-to-face (day-to-face)	Absentee	Absentee con- coction
Course	2	2	
Semester	3	3	
Lectures, hours	34	8	
Practical (seminar) classes, hours	16	4	
Classroom hours in the academic discipline	50	12	
Exam, semester	3	3	
Independent work, hours	130	168	
Total hours in the academic discipline/ credit units	180/5		

1. Brief content of the academic discipline

The purpose of teaching this discipline is to summarize all previously acquired knowledge by students on various methods of non-destructive testing (NDT), to teach how to choose the optimal method (or several methods) of control depending on the information content and production tasks, to organize an inspection service with maximum efficiency and a quality control system in the production and operation of industrial products, to familiarize with modern principles of product quality control in various industries.

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 means 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 NK;

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

have the skills to: formulate requirements for parameters, equipment and prepare regulatory documentation and maintenance personnel for NDT in leading industries.

3. Formed competencies.

Mastering this academic discipline should ensure the formation of the following competencies:
 Effectively apply non-destructive testing methods and means in the production process.

4. Requirements and forms of current and intermediate certification: individual tasks and exam (oral and written form).