

# METHODS AND INSTRUMENTS FOR TECHNICAL DIAGNOSIS

## ANNOTATION TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

**Speciality** 1-54 01 02 - Methods and instruments 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)
Well	4
Semester	7
Lectures, hours	64
Practical (seminar) classes, hours	16
Laboratory classes, hours	16
Exam, semester	7
Classroom hours per academic discipline	96
Independent work, hours	120
Total hours per academic discipline / credit units	216/6.0

**1. Brief content of the discipline.** The discipline is aimed at acquiring theoretical knowledge and practical skills for the student in diagnosing hazardous production facilities, studying the features of conducting technical diagnostics at various facilities, studying the basics of reliable and safe operation of hazardous production facilities, studying regulatory and legal documents that determine their operating features and the norms for assessing the limiting states.

**2. Learning Outcomes.** As a result of mastering the academic discipline, the student must

know: basics of the theory of technical diagnostics; the procedure for diagnosing hazardous production facilities; diagnostic parameters of objects; design features of hazardous production facilities; regulatory documents defining the diagnosis of hazardous production facilities;

be able to: choose programs for technical diagnostics; carry out technical diagnostics of objects; use regulatory documents that determine the operational and diagnostic parameters of hazardous production facilities;

own: the ability to rationally choose the methods of technical diagnostics, methods of processing information when monitoring and diagnosing industrial facilities.

**3. Formed competencies:** BOD-17 Be able to determine the quality and condition of technical systems and predict the possibility of their further operation.

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