

CONTROL AND MEASUREMENT PRACTICE

ANNOTATION

TO THE PRACTICE PROGRAM OF HIGHER EDUCATION INSTITUTIONS

Specialty 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	2
Semester	4
Total Practice Hours / Credits	162/4,0

1. Summary of the practice program (goals and objectives of the practice). The purpose of the practice is to consolidate the theoretical knowledge acquired by students in the study of such disciplines as higher mathematics, physics, chemistry, materials science, mathematical modeling of physical processes, the theory of electrical circuits, electronics, materials technology, the basics of metrology and standardization, the design of REA units, control and measurement technology, sources and receivers of radiation, as well as further improvement of production skills and the acquisition of knowledge for more successful mastering of special disciplines and the implementation of term papers and projects.

2. Learning outcomes. As a result of mastering the academic discipline, the student must know: the structure and purpose of the enterprise and production workshops, non-destructive testing laboratories; department of metrology and standardization; department of technical control, the range of parts, welded assemblies, as well as products subject to control by non-destructive methods;

be able to: evaluate the features of the technological processes of casting, welding, thermal and mechanical processing of products in order to analyze defects, the causes of their occurrence and measures to prevent them;

own: practical skills and experience in the application of non-destructive testing, instruments and techniques used in the enterprise.

3. Formed competencies: CK-22 - Apply physical methods, instruments and control systems of power equipment with the greatest technical and economic effect.

4. Forms of the current attestation: differentiated test (oral form). In order to be admitted to the test, the student, in accordance with the curriculum, is obliged to submit a practice report, including an individual task, as well as a practice diary with a review of the manager from the enterprise.