QUALITY MANAGEMENT IN MECHANICAL ENGINEERING

(name of discipline)

COURSE SYLLABUS ABSTRACT

__6-05-0714-02 – Mechanical engineering technology, metal-cutting machines and tools _____

(speciality code and name)

Mechanical engineering technology, Equipment and technologies for highly efficient material processing processes, Technological equipment for mechanical engineering production

(concentration)

	STUDY MODE		
	full-time	full-time	full-time
Year	4	4	4
Semester	7	7	7
Lectures, hours	16	4	4
Practical classes (seminars), hours	16	4	4
Pass/fail, semester	7	7	7
Contact hours	32	8	8
Independent study, hours	76	100	100
Total course duration in hours / credit units	108	108	108

1 Course outline

The discipline " Quality Management in Mechanical Engineering" contains general ideas about issues related to ensuring, managing, and improving the quality of mechanical engineering products based on quality control and management systems used in international practice.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- stages of development and principles of quality systems;
- theoretical aspects of the scientific approach to quality management of products, works, and services;
- the structure of international and national quality standards;
- the content of quality management functions at the enterprise and the main methodological approaches to their implementation;
- modern methods for assessing product quality in mechanical engineering;

be able to:

- competently utilize regulatory and organizational-methodological documentation related to quality system assessment;
- apply the basic principles of building quality management systems at the enterprise;
- analyze and evaluate the quality level of the enterprise's products;
- apply quality management information technologies;

to possess a skill:

- competently utilize regulatory and organizational-methodological documentation related to quality system assessment;
- apply the basic principles of building quality management systems at the enterprise;
- analyze and evaluate the quality level of the enterprise's products;
- apply quality management information technologies;

3 Competencies

Mastering this training discipline should ensure the formation of the following competence: know the basic principles of formation and structure of quality management systems based on ISO 9000 series standards, basic methods of quality management and product certification

4 Requirements and forms of midcourse evaluation and summative assessment

Current and interim assessments are carried out in written form through tests, defense of practical work, and credit.