

Operation of process equipment  
(course title)

**COURSE SYLLABUS ABSTRACT**

1-36 01 03 – Machine-building process equipment

(speciality code and name)

	STUDY MODE
	full-time
Year	4
Semester	8
Lectures, hours	36
Laboratory classes, hours	24
Exam, semester	8
Contact hours	60
Independent study, hours	48
Total course duration in hours / credit units	108/3

1. Course outline

Operational documents. Adjustment of process equipment. Start-up of equipment. Maintenance and repair. Indicators of equipment technical level assessment. Diagnostics in automated manufacturing. Artificial intelligence in diagnostics.

2. Course learning outcomes

Upon completion of the course, students will be expected to know: organizational basis for the operation of mechanical engineering products; methods and means of diagnostics, operational maintenance and repairs of process and other equipment; methods of designing and planning the technology of integrated maintenance of machinery in mechanical engineering; procedure for determining the cost of work on maintenance of machinery and equipment.

be able to: determine the cost of work on the maintenance of machinery and equipment.

possess: basic operation of process equipment; methods of maintenance and repair of process equipment; method of determining the cost of work on the maintenance of machines and equipment.

3. Competencies

SK-9 – Be able to organize the operation of metal-cutting machines and their components, develop technological processes for their repair.

4. Requirements and forms of midcourse evaluation and summative assessment

– verbal-written: laboratory protection, exam.