

COURSE SYLLABUS

Occupational safety and health in the industry

Degree of higher education second (master)

Specialty 182 Consumer industry technologies

Educational program Manufacturing and technology

Course status – compulsory.

Instructor (s) Heat Power Engineering, Resource Saving and Technogenic Safety: Vladyslava Skidan, associate professor; Sergii Bieliaiev, associate professor; Ievgeniia Romanuik, associate professor.

1. Course description

Semester(s): 1.

Scope: total number of hours – 90 including: lectures – 10 hours, practical – 20 hours, independent work – 60 hours; number of ECTS credits – 3.

Course objectives – mastering competencies/abilities: the ability to carry out safe activities in a particular industry and the ability to take personal responsibility in the professional sphere; effectively manage labor protection and improve working conditions, taking into account the achievements of scientific and technological progress and international experience, as well as successfully combine professional activities with mandatory compliance with all occupational safety requirements in a particular industry.

Learning outcomes of the course:

know: to know the basic laws and regulations for occupational safety and health in the industry, international norms in occupational safety, social responsibility;

be able: to monitor compliance with safe at each workplace and timely update the instructions based on existing conditions, taking into account the requirements of occupational safety, industrial sanitation, and fire protection; to organize the work of the research or production team, to manage its activities in accordance with applicable law and internal regulations of the enterprise / institution, ensure the team efficiency and work quality, occupational safety, and the environmental protection.

able to demonstrate: ethical principles of professional honesty, social responsibility and awareness, safe activities; understanding the possible impact of production factors on the social sphere and the environment;

have the skills: control and maintenance of norms of labor protection, safety, requirements of environmental protection, scientific organization of labor;

solve independently: control and coordination function in enterprise management.

Required educational components (prerequisites, co-requisites, post-requisites): within the level of higher education: methodology of modern scientific research.

Course content: **Topic 1.** International standards in the field of labor protection. **Topic 2.** The main laws and regulations on labor protection in the industry. **Topic 3.** Occupational safety management system in the organization. **Topic 4.** Injuries and occupational diseases in the industry. Accident investigation. **Topic 5.** Special sections of labor protection in the field of professional activity. **Topic 6.** Actual problems of labor protection in scientific researches. **Topic 7.** Basic fire prevention measures at industry sites. **Topic 8.** State supervision and public control over the state of labor protection. **Topic 9.** Social insurance against accidents and occupational diseases at work.

Forms of final control: credit (semester 1)

Tools for diagnosing learning success: individual tasks, calculation works, tests, questions for current/final control.

Language of instruction: english

2. Assessment

Distribution of points received by applicants for higher education

Credit

Ongoing assessment and independent work								MC	Total
T2	T3	T4	T5	T6	T7	T8	T9		
6	6	6	6	6	6	32	6	20	100

Distribution of points in the course

Activities evaluated in points	T1	T2	T3	T4	T5	T6	T7	T8	T9	Total
Execution and protection of practical work	6	6	6	6	6	6	6	6	6	54
Calculation and graphic work								26		26
Modular control	20									20
Total in the course										100

Exam evaluation criteria

Compliance with the scales for assessing the quality of learning material

Score on the national scale	Points	Assessment on the ECTS scale	Definition
excellent / passed	90-100	A	Excellent (outstanding performance without errors)
good / passed	82-89	B	Very good (above the average standard but with minor errors)
	74-81	C	Good (generally sound work with some errors)
satisfactory / passed	64-73	D	Satisfactory (fair but with significant shortcomings)
	60-63	E	Fair (performance meets the minimum criteria)
unsatisfactory / failed	35-59	FX	Fail (some more work required before the credit can be awarded)
	0-34	F	Fail (considerable further work is required)

3. Course policy:

3.1 Mandatory observance of academic integrity by higher education students, namely:

- independent performance of all activities, tasks, forms of control provided by the working program of this course;
- references to the sources of information if ideas, developments, statements, information are used;
- compliance with the legislation on copyright and related rights;
- providing reliable information about the results of their own educational (scientific, creative) activities, used research methods and sources of information.

3.2 Recognition of learning outcomes obtained in non-formal education is allowed.

3.3 To obtain a positive grade in the course, it is necessary to obtain the minimum number of points for each type of work, which is evaluated in points.

3.4 In case of late performance of works, their assessment is reduced by 25% of the possible maximum number of points per activity. Postponement of delivery / re-submission:

- for valid reasons (hospital, academic mobility, etc.) on a written application certified by the curator and employees of the dean's office;

- without good reason, the final score will be 60 points, regardless of the quality of work performed.

3.5 When plagiarism is detected, the student's work is not evaluated, but sent for revision.

3.6 Attendance policy: Attendance is a mandatory component of assessment. For objective reasons (eg illness, employment, international internship) training can take place online in consultation with the head of the faculty.

3.7 Missed classes are subject to mandatory completion by a student individually or by a group of students upon application.

3.8 Mobile devices may be used only during online testing and preparation for practical tasks during the lesson or under the guidance of a teacher.