

**MINISTRY OF INTERNAL AFFAIRS OF UKRAINE
DNIPROPETROVSK STATE UNIVERSITY OF INTERNAL AFFAIRS**

FACULTY OF LAW

DEPARTMENT OF PHYSICAL EDUCATION

APPROVED

Rector of Dnipropetrovsk State
University of Internal Affairs
Colonel of the Police

ANDRII FOMENKO

**CURRICULUM OF THE ACADEMIC DISCIPLINE
"OCCUPATIONAL SAFETY"**

Academic level Bachelor's degree

Specialty 073 Management

Educational program "Financial and economic security
and risk management"

Status of the academic discipline - normative

Language of instruction - English

Dnipro – 2020

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19.05. 2020, minutes № 14

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Approved by Academic council of the University, recommended to be used in the teaching process for 5 years. . "27" August 2020, minutes № 12

The goal of studying the academic discipline "Occupational Safety" is to acquire knowledge of the basic provisions of the discipline "Occupational Safety" for the formation of concepts, skills and abilities of practical application of legal framework in disciplines, solving complex problems of innovation and effective decision making in everyday life and especially in emergencies of different origins: man-made, natural, socio-political, anthropogenic, etc.

The training components are:

- educational (training) - to promote the formation of a modern highly qualified lawyer; improving the legal culture and erudition of students, mastering the experience of other countries in the application of knowledge to protect the civilian population;

- developing - to form and develop students' legal knowledge; to develop skills of independent analysis of issues of self-protective and social-protective nature that arise in practice; ability to apply the acquired knowledge in assessing a specific situation;

- educational to form the values of students in accordance with the ideals of humanism, democracy, social justice, respect for the individual; to cultivate an active civil position; to promote awareness of the role and importance of legal activity in building and strengthening the Ukrainian state.

The most important worldview ideas and categories to be mastered during the study of the discipline "Occupational Safety":

- mastering the necessary training that provides a vision of emerging problems, ways to solve them;

- formation of humanistic ideology, goodness, legality, sense of responsibility to society, state and man.

Course policy ("rules of the game").

Each student must perform their duties in good faith: attend classes, work actively in class, complete tasks on time, attend consultations according to the schedule of consultations of the teacher.

Applicants' behavior during classes must be in accordance with ethical norms and safety rules.

The purpose of the discipline "Occupational Safety" are to acquire knowledge, skills and abilities to solve professional problems with due regard for the safety of personnel and protection of civilians in dangerous and emergency situations in the formation of motivation to strengthen personal responsibility to ensure guaranteed the level of safe operation of life support facilities, production, material and cultural values within the scientifically sound criteria of acceptable risk.

Prerequisites for the study of the discipline laid down in the **preliminary study of such disciplines** as human biology (anatomy, physiology), law, civil defense.

General characteristics of the discipline:

Definition of occupational safety and health.

Equilibrium in the system "man - living environment", "man - machine - environment" and its components.

Security is absolute and relative. Life - as a process of existence and self-realization of the individual in the unity of his life needs and opportunities.

Axiom about the potential danger of human activity.

Objects, objects and goals in the system "man - living environment".

Ergonomic principles of safety, human compatibility with technology and environment. Ergonomics and working conditions. Categories of labor severity.

Scientific analysis of the factors influencing the security of each individual, the whole society is the basis of the course, its theoretical foundations, without which there can be no practical skills, adequate action in a given situation.

Study outcomes for studying the academic discipline "Occupational Safety". In accordance to the requirements of the educational program students **must know:**

1) identification, assessment of the threat and occurrence of emergencies according to the established criteria and indicators, requirements for the microclimate of industrial premises, factors of the production environment;

2) types of injuries, features of individual injuries and injuries, the procedure for providing first aid in these cases;

3) rules of first aid in case of emergency.

be able:

1) to penetrate into the essence of the phenomena and processes of the real world, to consciously use scientific knowledge in cognitive and professional activities, to analyze the state of one's own physical, mental and spiritual health; be able to reproduce the knowledge provided by this program;

2) to protect the interests of the state, to combine public, collective, and individual interests, to conduct self-analysis, self-education and self-improvement, the ability to use knowledge in practice in solving typical life situations;

3) use knowledge to solve non-standard problems and problem situations.

Volume of the academic discipline: Appendixes 1.1, 1.2.

Curriculum of the academic program

TOPIC 1. INTRODUCTION TO THE DISCIPLINE OF OCCUPATIONAL LIFE SAFETY

Definition of the concept of "Occupational Safety". Equilibrium in the system "man - living environment", "man - machine - environment" and its components. Security is absolute and relative. Life - as a process of existence and self-realization of the individual in the unity of his life needs and opportunities. Axiom about the potential danger of human activity. Objects, objects and goals in the system "man - living environment". Ergonomic principles of safety, human compatibility with technology and environment. Ergonomics and working conditions. Categories of labor severity.

Theoretically, the security of man and society should be guaranteed by the laws of the state in various spheres of activity: in natural - environmental legislation, in industrial and social - administrative, economic, criminal and other sections of law. They must regulate the relationship between people in society, their relationship to nature, the environment. Provisions of legislation, any branch of law are the theoretical foundations of a particular area of modern science: basic (chemical, biological, physical, mathematical), sociological (domestic policy, foreign policy) and humanities (law, culturology, art). Scientific analysis of the factors influencing the safety of each individual, the whole society is the basis of the course, its theoretical foundations, without which there can be no practical skills, adequate action in a given situation.

TOPIC 2. LEGAL AND ORGANIZATIONAL ISSUES OF LABOR PROTECTION. LEGISLATIVE PROVISION OF OCCUPATIONAL HEALTH AND SAFETY IN UKRAINE.

Constitutional principles of labor protection in Ukraine. Legislation of Ukraine on labor protection. Law of Ukraine "On labor protection". Basic principles of the state policy of Ukraine in the field of labor protection. Guarantees of workers' rights to labor protection, benefits and compensation for difficult and harmful working conditions. Labor protection of women, minors, the disabled. Responsibilities of employees to comply with the requirements of regulations on labor protection.

Mandatory medical examinations of certain categories of employees.

Responsibility of officials and employees for violations of labor protection legislation.

Regulations on labor protection.

Occupational safety standards.

TOPIC 3. FUNDAMENTALS OF PHYSIOLOGY AND OCCUPATIONAL HYGIENE. MICROCLIMATE OF PRODUCTION PREMISES.

Fundamentals of labor physiology. The role of the central nervous system in human labor. Fatigue. Occupational hygiene, its importance. Factors determining sanitary and hygienic working conditions. General approaches to the assessment of working conditions and the provision of appropriate, safe and healthy working conditions.

Microclimate of the working area. Measures and means of normalization of microclimate parameters.

The composition of the air of the working area. Maximum permissible concentrations of harmful substances. Control over the state of the air at work. Measures and means to prevent air pollution in the work area.

Ventilation. Types of ventilation.

Basic lighting definitions. Natural, artificial, combined lighting.

TOPIC 4. ELECTRICAL SAFETY, ACCESSORIES AND MEANS ELECTRICAL SAFETY.

The effect of electric current on the human body. Electrical injuries. Factors influencing the consequences of electric shock.

Classification of premises according to the degree of danger of electric shock. Conditions of electric shock. Electric shock when touching or approaching live parts and when touching non-conducting metal elements of electrical installations, which were under voltage. Step and touch voltage. Safe operation of electrical installations: electrical protective equipment and measures. Providing first aid in case of electric shock.

TOPIC 5. FIRE SAFETY

Indicators of explosive properties of materials and substances. Categories of premises by explosion and fire hazard. Classification of explosion-hazardous and fire-hazardous premises and zones.

The main means and measures to ensure fire safety of the production facility. Fire alarm. Fire extinguishers.

Actions of personnel in case of fire. Ensuring and monitoring the state of fire safety at production facilities. Study of fire safety by employees

TOPIC 6. PATHOGENIC EFFECT OF PHYSICAL, CHEMICAL, BIOLOGICAL AND PSYHOPHYSIOLOGICAL FACTORS.

Physically dangerous and harmful production factors include factors that characterize the technological process (moving machines and mechanisms, moving parts of equipment, moving products, workpieces and materials, sharp edges, burrs, increased or decreased surface temperature of equipment or materials, electrical voltage, voltage increased level of static electricity), and factors that characterize the air of industrial premises (increased dust and gassiness of the air in the work area, meteorological conditions, increased noise, ultrasonic vibrations, vibrations at the workplace, insufficient area, etc.).

Chemical hazardous and harmful production factors are divided into:

- by the nature of human exposure to: toxic (cause poisoning of the body), irritating, sensitizing (cause allergies), carcinogenic (cause malignant creatures), mutagenic (affect changes in heredity), reproductive;
- by penetration into the human body: penetrating through the respiratory organs, gastrointestinal tract, skin and mucous membranes.

Biologically dangerous and harmful production factors contain the following biological objects: microorganisms (bacteria, viruses, etc.) and products of their vital activity, macroorganisms (plants and animals).

Psychophysiological: physical and neuropsychological overloads.

TOPIC 7. EMERGENCIES. CLASSIFICATION AND CHARACTERISTICS OF NATURAL, TECHNOGENIC AND SOCIO-POLITICAL DANGERS.

Danger is a phenomenon, process, object, property that can, under certain conditions, harm human health or life or systems that ensure human life.

Everyone intuitively senses danger and understands its significance in their own way. Protection of housing, workplace, wealth, health, environment - the main problems of safe human well-being. The feeling of danger also has a deeply individual tone, which mainly depends on:

- a) the level of social and spiritual development of the individual;
- b) situations and social order that positively or negatively affect the worldview of the citizen.

When identifying hazards, it is necessary to proceed from the principle of "everything affects everything", ie the source of danger can be all living and non-living, and all living and non-living things can also be subject to danger.

Sources (carriers) of dangers are:

- natural processes and phenomena;

- elements of man-made environment;
- human actions that hide the threat of danger.

Form of the assessment of the learning success

Final control is a check of the level of acquisition of knowledge, skills, abilities and other competencies for a certain period of study (academic semester).

The discipline "Safety of life and basics of labor protection" provides:

- for full-time education - 90 hours, credit;

All questions about working with the course should be addressed in the appropriate forum "Questions about working with the course" 3 ECTS credits / 90 hours

semester test autumn

number of modules 7

number of lecture 14 hours

number of seminar - 6 hours

number of practical lessons 10 hours

independent and individual work 60 hours

Criteria for the assessment of the learning success.

Final control is a test of the level of acquisition of knowledge, skills, abilities and other competencies for the academic semester.

Current control			TEST
Classwork	Independent work	Individual work	
≤30	≤15	≤15	
≤60			≤40
Final grade =Current control+Test≤100			

The general rating of the student's competence consists of ratings on educational work (classroom, independent, individual) and final control (credit). Thus the maximum rating on educational work makes 60, and final control - 40 points. The overall rating of a student's competence is thus assessed on a 100-point

scale. Individual students for active participation in sports or scientific work, according to the decision of the department, can be awarded, within 100 points, additional points, but not more than 20. If the student could not get the minimum number of points for academic work (30) or his total the competency rating was less than 60 points it is considered to have academic debt. The rating of the student's academic work consists of classroom, independent and individual work.

Assessment of competence in the student's classroom work consists of assessing the level of theoretical knowledge or practical skills, which is carried out within the boundary control on each topic defined by the thematic plan for the relevant period of study (semester, academic year).

Evaluation in each class may not be a requirement. However, the teacher can assess the quality of student performance in each lesson, as part of the current control. Assessment on a particular topic (task) is carried out on the following scale: "excellent" - 5 points, "good" - 4 points, "satisfactory" - 3 points, "unsatisfactory" - 2 points.

Criteria for evaluating the classroom work of applicants

Score	Clarification
5	Theoretical issues submitted for consideration have been mastered in full; the necessary practical skills and abilities are formed at a high level; all educational tasks provided by the lesson plan are performed in full. During the lesson, stable activity and initiative were demonstrated. Answers to theoretical questions (workers' rights to labor protection, benefits and compensation, labor protection of women, minors and the disabled, medical examinations of workers, sanitary and hygienic working conditions, electrical injuries and factors on which the effect of electric shock on a person electric shock, means and measures to ensure fire safety of the production facility, fire alarm. and terms (concepts of labor protection and life safety, harmful and dangerous (factors) conditions, occupational health and industrial sanitation, sanitary equipment, categories of labor severity, working area, microclimate, electrical safety, fire safety, emergencies; principles (ergonomic safety principles, principles of state policy of Ukraine in the field of labor protection), solving practical problems (lighting, ventilation, protection against noise, radiation and vibration), expressing one's own opinion on controversial issues is based on deep knowledge of current regulations on labor protection (laws, constitutional principles of labor protection in Ukraine. Law of Ukraine "On labor protection".

	regulations, standards in the field of labor protection, acts, instructions) in force in Ukraine at present.
4	Theoretical issues submitted for consideration have been mastered in full; mainly the necessary practical skills and abilities are formed; all classes and training tasks provided for in the plan are performed in full with some inaccuracies. Initiative was demonstrated during the lesson. The answers to theoretical questions are complete, but not clearly stated, the solution of practical problems is carried out, but without reference to a particular production system, the expression of their own opinion on controversial issues is mainly based on knowledge of existing legal assets.
3	Theoretical issues submitted for consideration are generally mastered (Ukrainian legislation, occupational health, technical safety); practical skills and abilities are superficial (poor mastery of terminology, regulatory framework for labor protection, industrial sanitation and safety), not improved, need further development and consolidation; the learning tasks provided by the plan are mostly performed, some types of tasks are performed with errors.
2	Theoretical issues submitted for consideration, partially mastered, gaps in knowledge are not significant (mastery of terminology, regulatory framework for labor protection, industrial sanitation and safety); practical skills and abilities are not mastered enough (does not focus on the essence of electric current, its voltage, strength and resistance, does not know how to put out fire extinguishers, how to use fire extinguishers and other fire extinguishers); most of the learning tasks are completed, some of the completed tasks contain significant errors that need further elimination.
1	The applicant is not ready for the lesson, does not know most of the program material, has difficulty performing tasks, uncertainly reproduces the terms and concepts of labor protection, considered during the lesson, makes meaningful mistakes, does not have the appropriate skills, tools and measures used for occupational safety.
0	Absence from class

Individual work consists in: preparation by the student of the report (abstract) on a certain theme of the educational program defined by the teacher which is estimated in 1-15 points. Independent work is evaluated from 1 to 15 points.

For studying the academic discipline «Occupational Safety» methods of the assessment of acquired knowledge (the learning success) are as follows: complex

exams; standardized tests; essays, essays; presentation of the results of completed tasks and research; student presentations and speeches at scientific events; etc

Критерії переведення оцінок за 100-бальною шкалою у національну шкалу та шкалу ЄКТС для денної та заочної форми навчання

Оцінка в балах	Оцінка за національною шкалою		О ц і н к а з а ш к а л о ю Є К Т С	
	Залік	Екзамен / диференційований залік	Оцінка	Пояснення
90–100	зараховано	Відмінно	A	«Відмінно» – теоретичний зміст курсу засвоєний у повному обсязі; сформовані необхідні практичні навички роботи із засвоєним матеріалом; всі навчальні завдання, передбачені програмою навчання, виконані в повному обсязі.
83–89		Добре	B	«Дуже добре» – теоретичний зміст курсу засвоєний у повному обсязі; в основному сформовані необхідні практичні навички роботи із засвоєним матеріалом; всі навчальні завдання, передбачені програмою навчання, виконані, якість виконання більшості з них оцінена кількістю балів, близькою до максимальної.
75–82			C	«Добре» – теоретичний зміст курсу засвоєний цілком; в основному сформовані практичні навички роботи із засвоєним матеріалом; всі навчальні завдання, передбачені програмою навчання, виконані, якість виконання жодного з них не оцінена мінімальною кількістю балів, деякі види завдань виконані з помилками.
68–74		Задовільно	D	«Задовільно» – теоретичний зміст курсу засвоєний не повністю, але прогалини не носять істотного характеру; в основному сформовані необхідні практичні навички роботи із засвоєним матеріалом; більшість передбачених програмою навчання навчальних завдань виконано, деякі з виконаних завдань містять помилки.
60–67			E	«Достатньо» – теоретичний зміст курсу засвоєний частково; не сформовані деякі практичні навички роботи; частина передбачених програмою навчання навчальних завдань не виконані або якість виконання деяких з них оцінено числом балів, близьким до мінімального.
35–59	Незараховано	Незадовільно	FX	«Умовно незадовільно» – теоретичний зміст курсу засвоєний частково; не сформовані необхідні практичні навички роботи; більшість навчальних завдань не виконано або якість їх виконання оцінено кількістю балів, близькою до мінімальної; при додатковій самостійній роботі над матеріалом курсу можливе підвищення якості виконання навчальних завдань (з можливістю повторного складання).

Оцінка в балах	Оцінка за національною шкалою		О ц і н к а з а ш к а л о ю Є К Т С	
	Залік	Екзамен / диференційований залік	Оцінка	Пояснення
1–34			F	«Безумовно незадовільно» – теоретичний зміст курсу не засвоєний; не сформовані необхідні практичні навички роботи; всі виконані навчальні завдання містять грубі помилки або не виконані взагалі; додаткова самостійна робота над матеріалом курсу не призведе до значного підвищення якості виконання навчальних завдань.

INFORMATIONAL AND METHODOLOGICAL SUPPORT OF THE ACADEMIC DISCIPLINE

OCCUPATION SAFETY

Academic level Bachelor's degree Specialty 073 Management

for academic year 2020/2021

Principal legal regulatory documents:

1. Конституція України
2. Акти міжнародного права
3. Міжнародне законодавство про охорону праці: Конвенції та рекомендації МОП: У 3-х томах / Упоряд. Е.М. Теличко. – К., 2007.
4. Закон України «Про охорону праці».
5. Кодекс законів про працю України.
6. Zakon Ukrainy Pro vnesennja zmin do Zakonu Ukrainy «Pro ohoronu praci» від 21 listopada 2002 roku. № 229-IV [Law of Ukrai'ny Pro introduction of the Law on the Law of Ukrai'ny «Pro ohoronu praci» of November 21, 2011]. Retrieved from <https://portal.rada.gov.ua>. [in Ukrainian].
 - Закон України «Основи законодавства України про охорону здоров'я».
7. Кодекс цивільного захисту України
8. Закон України «Про використання ядерної енергії та радіаційну безпеку»
9. Закон України «Про забезпечення санітарного та епідемічного благополуччя населення».
10. Закон України «Про загальнообов'язкове державне соціальне страхування від нещасного випадку на виробництві та професійного захворювання, які спричинили втрату працездатності».
11. Закон України «Про основні засади державного нагляду (контролю) у сфері господарської діяльності».
12. Postanova Kabinetu Ministriv Ukrainy «Dejaki pytannja rozsliduvannja ta obliku neshhasnyh wypadkiv, profesijnyh zahvorjuvan i avarij na vyrobnyctvi» vid 30 listopada 2011 roku. №1232 (zi zminamy) [Resolution of the Cabinet of Ministers of Ukraine “Some Issues of Investigation and Accounting of Accidents of November 30, 2011). Retrieved from <https://zakon.rada.gov.ua> [in Ukrainian].
 - Постанова Кабінету Міністрів України від 30.11.2011 р. № 1232 «Деякі питання розслідування та ведення обліку нещасних випадків, професійних захворювань і аварій на виробництві».
13. Гігієнічні нормативи ГН 3.3.5-8-6.6.1-2002 «Гігієнічна класифікація праці за показниками шкідливості та небезпечності факторів виробничого середовища, важкості та напруженості трудового процесу». Затверджена Наказом Міністерства охорони здоров'я України від 27.12.2001 № 528.
14. ДСН 3.3.6.042-99 Санітарні норми мікроклімату виробничих приміщень.
15. ДСН 3.3.6.037-99 Санітарні норми виробничого шуму, ультразвуку та інфразвуку.

16.НПАОП 0.00-1.28-10 Правила охорони праці під час експлуатації електронно-обчислювальних машин. Наказ Держгірпромнагляду від 26.03.2010р. № 65

17.ДСТУ 2293-99 «Охорона праці. Терміни та визначення основних понять».

18. Пожежна безпека. Нормативні акти та інші документи: У 4-х т. – К., 1997.

19. Systemy upravlinnja gigijenoju ta bezpekoju praci vid 2011-01-01 [Systemy hygiene management helps keep those hands clean of January 01, 2011] Vymogy: DSTU ONSAS 18001:2010 [Chynnyj vid 2011-01-01]. Kyiv, 10 [in Ukrainian]

Textbooks:

1. Alli B. O. Fundamental principles of occupational health and safety /Benjamin O. Alli; International LabourOffice– Geneva: IL O, 2008. 221 p.
https://www.ilo.org/wcmsp5/groups/public/---dgreports/---dcomm/---publ/documents/publication/wcms_093550.pdf

2. Alton Joseph, Alton Amy. The Survival Medicine Handbook: A guide for when help is NOT on the way. Publisher : Doom and Bloom, LLC; 2nd edition (January 6, 2014). 647 pages

3. Arezes P. et al. (ed.). Occupational Safety and Hygiene. – CRC Press, 2013.

4. First Aid Training : First on the Scene - Student Reference Guide Saint John Ambulance, 1999 - CPR (First aid).

5. Forgey M.D. The Prepper's Medical Handbook. Kindle Edition, 2020. 308 p.

6. Friend M. A., Kohn J. P. Fundamentals of occupational safety and health. – Rowman & Littlefield, 2018.

7. Inlander Charles B., Norwood Janet Worsley, The People's Medical Society. First Aid & Safety For Dummies. Paperback – November 22, 1999. 330 pages

8. Joel M. Haight. Hazard Prevention through Effective Safety and Health Training. Paperback – February 4, 2013

9. Mansdorf S. Z. Handbook of Occupational Safety and Health, Third Edition. John Wiley & Sons, Inc. 2019. Print ISBN:9781118947265 |Online ISBN:9781119581482

10. Occupational First Aid. A Reference and Training Manual Level 2. 2018. Edition Library and Archives Canada Cataloguing in Publication Data.
file:///C:/Users/8E9B~1/AppData/Local/Temp/occupational_first_aid_reference_training_manual_level_2-pdf-en.pdf

11. Occupational First Aid. A Reference and Training Manual. 2018. Edition Library and Archives Canada Cataloguing in Publication Data.
file:///C:/Users/8E9B~1/AppData/Local/Temp/occupational_first_aid_reference_manual-pdf-en.pdf

12. Occupational Safety and Hygiene VI: Book chapters from the 6th International Symposium on Occupation Safety and Hygiene (SHO 2018), March 26-27, 2018, Guimarães, Portugal 1st Edition .Publisher : CRC Press; 1st edition (March 5, 2018). 634 pages

13. Odarchenko, M., Odarchenko, A., Stepanov, V., Chernenko, Ya. (2017). Osnovy ohorony praci: pidruchnyk. [Basics of labor protection]. Harkiv: Styl-Yzdat [in Ukrainian].

14. Ridley J., Channing J. (ed.). Safety at work. – Routledge, 2008.

15. Stellman J. M. (ed.). Encyclopaedia of occupational health and safety. – International Labour Organization, 1998. – T. 1.

16. Stellman J. M. (ed.). Encyclopaedia of occupational health and safety. – International Labour Organization, 1998. – T. 1.

17. Waldron H. A. Occupational Health Practice. Book. Third Edition. Elsevier Ltd. 1989. 544 Pages DOI <https://doi.org/10.1016/C2013-0-04007-8>

18. Wooten E.W. An Encyclopedia Of Concepts In MRI Safety: A Reference For The MRSO, MRMD, and MRSE [Print Replica] Kindle Edition. 2019. 268 pages
19. Yates W. David. Safety Professional's Reference and Study Guide, Third Edition. Kindle Edition. 2020. 817 p.
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19.05.2020, minutes № 14

Head of the department of Physical Education

Iryna SKRYPCHENKO

_____ 2020

VOLUME OF THE ACADEMIC DISCIPLINE
"Occupational Safety"

Academic level Bachelor's degree Specialty 073 Management

for academic year 2020/2021

Form of study FULL-TIME Volume 3_ ECTS credits (90 academic hours)

Faculty SPOU

Year of study 1 Academic groups B-M-041IN

№ of the topic according to the syllabus	Title of the topic (according to the syllabus)	Total volume, hours	In-class activity				Independent and individual assignments
			Total	Lectures	Seminars	Practical classes	
1	2	3	4	5	6	7	8
1.	Introduction to the discipline of occupational life safety	6	2	2			4
2.	Legal and organizational issues of labor protection. Legislative provision of occupational health and safety in Ukraine.	10	4	2	2		6
3	Fundamentals of physiology and occupational hygiene. Microclimate of production	14	4	2		2	10

	premises.						
4	Electrical safety, accessories and means electrical safety.	16	6	2	2	2	10
5	Fire safety	14	4	2		2	10
6	Pathogenic effect of physical, chemical, biological and psychophysiological factors.	14	4	2		2	10
7	Emergencies. Classification and characteristics of natural, technogenic and socio-political dangers.	16	6	2	2	2	10
	Semester, total	90	30	14	10	6	60
	<i>Form of final control</i>	<i>test</i>					

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