

**Ministry of Education and Science of Ukraine
Dnipro University of Technology**

**MINING FACULTY
DEPARTMENT OF LABOR PROTECTION AND CIVIL SAFETY**

“APPROVED”

Head of Department

Holinko V.I. _____

“ ____ ” _____ 2018

WORK PROGRAM OF THE ACADEMIC DISCIPLINE

" Civil security "

Field of study.....	18 Production and Technology
Specialty.....	185 Oil and Gas Engineering and Technology
Academic degree.....	Bachelor
Academic program.....	Oil and Gas Engineering and Technology
Language of study.....	English

Prolonged: for 20 ____ / 20__ academic year _____ (_____) " ____ " ____ 20__.

(Signature, name, date)

for 20 ____ / 20__ academic year _____ (_____) " ____ " ____ 20__.

(Signature, name, date)

Dnipro
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2018

Work program of the academic discipline “Civil security” for bachelor’s specialty 185 “Oil and Gas Engineering and Technology” / V.I. Holinko / NTU “Dnipro Polytechnic” Department of safety and civil security. - DA: NTU «DP» 2018 - 13 p.

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The work program regulates:

- key goals and objectives;
- the disciplinary learning outcomes generated through the transformation of the intended learning outcomes of the degree program;
- the content of the discipline formed according to the criterion “disciplinary learning outcomes”;
- the discipline program (thematic plan by different types of classes);
- distribution of the discipline workload by different types of classes;
- an algorithm for assessing the level of achievement of disciplinary learning outcomes (scales, tools, procedures and evaluation criteria);
- criteria and procedures for evaluating the academic achievements of applicants by discipline;
- the contents of the educational and methodological support of the discipline;

The work program is designed to implement a competency approach in planning an education process, delivery of the academic discipline, preparing students for control activities, controlling the implementation of educational activities, internal and external quality assurance in higher education, accreditation of degree programs within the specialty.

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1 DISCIPLINE OBJECTIVES

In the educational and professional programs of the Dnipro University of Technology specialty 185 “Oil and gas engineering and technology”, the distribution of program learning outcomes (NRN) for the organizational forms of the educational process is done. In particular, the following learning outcomes are attributed to the discipline Z7 "Civil Security":

ZR8	Demonstrate skills exercise safe operation of oil and gas facilities.
SR13	Plan and organize the work of the structural unit of oil and gas company in accordance with the requirements of life safety, occupational safety and environmental protection

The objective of discipline - providing knowledge, skills and abilities (competencies) for effective professional activity by forming capacity for initiative, responsibility and skills for safe operation according to the profile of the future and the necessary level of individual and collective safety in emergency situations.

The implementation of the objective requires transforming program learning outcomes into the disciplinary ones as well as an adequate selection of the contents of the discipline according to this criterion.

2 INTENDED DISCIPLINARY LEARNING OUTCOMES

Code NRN	Disciplinary learning outcomes (DRN)	
	DRN code	content
ZR8.	ZR8-2.1	Use provisions of laws and regulations for civil security in their work
SR13.	SR13.-2.1	Perform functions under the regulations of the civil security while in residence and at careers
ZR8	ZR8-2.2	Identify harmful and dangerous to human factors and assess their impact on workers and the public
ZR8	ZR8-2.3	Determine by regulations the maximum allowable concentration, value or level of harmful factors and compliance with environmental, population centers, manufacturing facilities, equipment and processes parameters of safety requirements for certain factors
ZR8.	ZR8-2.4	Evaluate the conditions of residence and working conditions in the workplace
SR13.	SR13.-2.2	To carry out the selection and use of collective and individual protection
SR13.	SR13.-2.3	Develop measures to improve the conditions and safety in the place of residence and the workplace

3 BASIC DISCIPLINES

Subjects	The acquired learning outcomes
Physics	apply the theories, principles, methods and concepts of basic sciences at mastering specific disciplines and activities on specialty
Maths	demonstrate the ability to think abstractly, to perform system analysis in the evaluation and development of security systems
Chemistry	apply the theories, principles, methods and concepts of basic sciences at mastering specific disciplines and activities on specialty

4 WORKLOAD DISTRIBUTION BY THE FORM OF EDUCATIONAL PROCESS ORGANIZATION AND TYPES OF CLASSES

Type of classes	Workload hours	Distribution by forms of education, <i>hours</i>					
		Full-time		Part-time		Distance	
		Classes (C)	Individual work (IW)	Classes (C)	Individual work (IW)	Classes (C)	Individual work (IW)
Lectures	70	26	44			6	64
Practical	20	12	8			2	18
Laboratory	-	-	-			-	-
Workshops	-	-	-			-	-
Total	90	38	52			8	82

5 DISCIPLINE PROGRAM BY TYPES OF CLASSES

Ciphers DRN	Types and topics of training sessions	The volume of components, <i>hours</i>
	LECTURES	-
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	1 The concept of security. Basic terms and definitions Man in living environment. General information about emergencies, accidents, disasters. The dangers of natural and anthropogenic origin. Sources of danger in emergencies. Of civil security in Ukraine. Concept: hazards, hazards, injuries, professional and vocational caused by disease, chronic and acute diseases. Classification of dangerous and harmful factors on the nature of the action The risk to human life. Determining risk for events that cause stochastic and deterministic effects Human security in the workplace. Physical and mental work. Classification of work depending on the severity and intensity. The concept of hygienic classification of works	6
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	2 Legislation and regulation of civil security The constitutional principles of civil security in Ukraine. The law of Ukraine on civil security. Laws of Ukraine "Code Civil Protection Ukraine", "On Labor Protection", "On ensuring sanitary and epidemiological welfare." "On the prevention of domestic violence." Legislative acts of civil security: definition, basic requirements and characteristics. Basic Principles of State Policy of Ukraine in the field of civil protection. Legal regulation of relations connected with the protection of the population, territory, environment and property from emergencies. International cooperation of Ukraine in the field of civil protection, the program "Partnership for Peace" Basic Principles of State Policy of Ukraine in the field of labor. Guarantees of workers' health and safety, benefits and compensation for heavy and harmful working conditions. Protection of women, minors, disabled people. Duties of employees regarding compliance with regulations on health	6

Ciphers DRN	Types and topics of training sessions	The volume of components, hours
	<p>The organizational principles of preventing and combating domestic violence, the main directions of state policy in the sphere of combating domestic violence, protecting the rights and interests of victims of such violence</p> <p>Liability of officers and employees for violation of legislation on civil security</p>	
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	<p>3. Management, supervision and monitoring of civil security</p> <p>The system of government civil security in Ukraine.</p> <p>State Commission on technogenic and ecological safety and emergencies.</p> <p>The bodies of state supervision over civil security</p> <p>Major powers and rights State Emergency Service of Ukraine, State Service of Ukraine on Labor, State Service of Ukraine on issues of food safety and consumer protection</p> <p>Civil defense facilities management. Service and formation of civil protection</p> <p>Safety service company. The status and subordination. The structure and size of service. Rights and duties of workers to safety</p> <p>Public monitoring of safety organizations. Authorized employees face on safety, their rights and duties</p> <p>Entities engaged in activities on prevention and combating domestic violence</p> <p>The authority of the central executive authority, which provides public policy on prevention and combating domestic violence</p> <p>The authority authorized units of the National Police of Ukraine of custody and care services for children, education authorities, schools and institutions of education in preventing and combating domestic violence</p> <p>Objectives and measures on prevention of domestic violence</p>	6
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	<p>4 main functions and tasks of the safety management system</p> <p>The main objectives of the Single State System of Civil Protection of Population and Territories</p> <p>Prediction and assessment of socio-economic consequences of emergencies</p> <p>Development and implementation of measures to prevent emergencies</p> <p>Organization of population and territories in emergencies</p> <p>The main functions and tasks of safety management within the organization. Principles of organization and types of training on safety</p> <p>Learning the basics of occupational safety in schools and during vocational training</p> <p>Training and testing of health workers during hiring and in the process</p> <p>Special training and testing of the safety of workers who perform hazardous work.</p> <p>Study on health officials</p>	5

Ciphers DRN	Types and topics of training sessions	The volume of components, hours
	Instructing on safety. Types of instruction. Conduct briefings for employees. Instructing on safety for pupils, students. Internship (duplication) and admission staff to work independently	
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	5 Atmospheric air. Harmful substances in the air of populated areas and in the working area of industrial premises The composition of air in towns and in the working area of production facilities, sources of air pollution by harmful substances (gases, steam, dust, smoke, microorganisms). Characteristics of the main pollutants. Maximum permissible concentration (MPC) of pollutants Supervision of air pollution Activities and means of preventing pollution of the working area Ventilation. Types of ventilation. Organization of air in rooms, air balance multiplicity of air. Natural ventilation. Artificial (mechanical) ventilation of their choice, constructive design. (Local) mechanical ventilation	6
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	6 The microclimate of residential and production facilities Thermoregulation. The concept of the heat balance of the human body. Heatstroke The microclimate of living quarters and working areas of industrial facilities. Rationing and control of microclimate Measures and means normalization of microclimate. Air conditioning	5
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	7 Natural and artificial atsvitlennya Basic lighting determination Classification of industrial lighting. Natural, artificial, combined lighting Basic requirements for industrial lighting Rationing lighting level visual work Operation of industrial lighting Sources of artificial lighting lamps and fixtures The general approach to designing lighting systems	5
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	8 Noise and Vibration Parameters of the sound field, the sound pressure, intensity, frequency vibrational rate. Sound output audio source Classification of noise in origin, the nature, range and time characteristics Rationing noise Control parameters noise measuring instruments Methods and means of collective and individual protection against noise Infrasound and ultrasound. Power settings and infrasonic and ultrasonic vibrations. Rationing and control levels and basic methods of protection from ultrasound and infrasound Sources, classification and characteristics of vibration Hygienic rationing vibrations	6

Ciphers DRN	Types and topics of training sessions	The volume of components, hours
	Methods for controlling vibration settings Typical measures and collective and individual protection against vibrations	
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	9 Ionizing and Non-Ionizing Radiation Sources, characteristics and classification of electromagnetic radiation and electric and magnetic fields Characteristics of fields and radiation. Normalization of electromagnetic radiation. Devices and methods of control. Protection against electromagnetic radiation and fields Classification and sources of optical radiation range. Features of infrared (IR), ultraviolet (UV) laser and their regulation, and control devices Means and measures of protection against IR and UV radiation Industrial sources of ionizing radiation, classification and characteristics of their use Typical methods and tools to protect personnel from radiation in a production environment	6
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	10 Emergency situations and their consequences Basic concepts and definitions emergencies. Classification of emergencies and accidents. Characteristics of emergency situations of different origin. The main problem regarding the protection of population and territories from emergency situations Emergencies natural character Emergency manmade Emergency social and political Emergency military nature Emergency environmental	6
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	11 Organization and major events in the field of civil protection Basics of the state policy in the field of civil protection Unified State System of Civil Protection Civil Defense Force. Wrecking Service Modes of operation of a single system of civil protection. State of Emergency Civil defense facility management. Structure of civil defense facility management The main measures of civil protection, planning and implementation of measures for the safety and security of staff, reducing the risk of accidents, sustainable operation of the facility in emergency situations; keeping in readiness for use of forces and means of prevention and emergency response; creation of material reserves, providing warning employees about the threat or occurrence Education and training people to act in emergency situations	6
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4	12 Electrical safety Effects of electric current on the human body Electrical injuries. Factors influencing the effects of electric shock Classification of areas according to the degree of danger of electric shock. Terms lesions man electrocution	6

Ciphers DRN	Types and topics of training sessions	The volume of components, hours
SR13.-2.2 SR13.-2.3	Electric shock when touching or approaching live parts and when you touch the electrical grounding of metal elements, yaks came under stress Voltage step and touch Providing first aid for electric shock	
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	13 Fire Safety Indicators explosive properties of substances Categories for premises vybuhopozhezhonebezpechnisty Classification of explosive and flammable areas and zones Fixed assets and activities of fire safety production facility Fire alarm. Fire extinguishing means Actions of personnel in case of fire. Ensuring and monitoring the state of fire safety in industrial facilities Study on fire safety officers	6
	PRACTICAL TRAINING	20
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	Control of content of harmful substances in the air Control of meteorological conditions Control of natural and artificial light Control of noise and vibration Dosimetric control of ionizing radiation	4 3 3 3 3
ZR8-2.1 SR13.-2.1 ZR8-2.2 ZR8-2.3 ZR8-2.4 SR13.-2.2 SR13.-2.3	The primary means of fire	4
TOTAL		90

6 KNOWLEDGE PROGRESS TESTING

Certification of student achievement is accomplished through transparent procedures based on objective criteria in accordance with the University Regulations “On Evaluation of Higher Education Applicants' Learning Outcomes”.

The level of competencies achieved in relation to the expectations, identified during the control activities, reflects the real result of the student's study of the discipline.

6.1 GRADING SCALES

Assessment of academic achievement of students of the Dnipro University of Technology is carried out based on a rating (100-point) and institutional grading scales. The latter is necessary (in the official absence of a national scale) to convert (transfer) grades for mobile students.

The scales of assessment of learning outcomes of the NTUDP students

Rating	Institutional
90 ... 100	Excellent
74 ... 89	Good
60 ... 73	Satisfactory
0 ... 59	Failed

Discipline credits are scored if the student has a final grade of at least 60 points. A lower grade is considered to be an academic debt that is subject to liquidation in accordance with the Regulations on the Organization of the Educational Process of NTUDP.

6.2 DIAGNOSTIC TOOLS AND EVALUATION PROCEDURES

The content of diagnostic tools is aimed at controlling the level of knowledge, skills, communication, autonomy, and responsibility of the student according to the requirements of the National Qualifications Framework (NQF) up to the 7th qualification level during the demonstration of the learning outcomes regulated by the work program.

During the control activities, the student should perform tasks focused solely on the demonstration of disciplinary learning outcomes (Section 2).

Diagnostic tools provided to students at the control activities in the form of tasks for the intermediate and final knowledge progress testing are formed by specifying the initial data and a way of demonstrating disciplinary learning outcomes.

Diagnostic tools (control tasks) for the intermediate and final knowledge progress testing are approved by the appropriate department.

Type of diagnostic tools and procedures for evaluating the intermediate and final knowledge progress testing are given below.

Diagnostic and assessment procedures

INTERMEDIATE CONTROL			FINAL ASSESSMENT	
training sessions	diagnostic tools	procedures	diagnostic tools	procedures
lectures	control tasks for each topic	task during lectures	comprehensive reference work (CCW)	determining the average results of intermediate controls;
practical	control tasks for each topic	tasks during practical classes		CCW performance during the examination at the request of the student
	or individual task	tasks during independent work		

During the intermediate control, the lectures are evaluated by determining the quality of the performance of the control specific tasks. Practical classes are assessed by the quality of the control or individual task.

If the content of a particular type of teaching activity is subordinated to several descriptors, then the integral value of the assessment may be determined by the

weighting coefficients set by the lecturer.

Provided that the level of results of the intermediate controls of all types of training at least 60 points, the final control can be carried out without the student's immediate participation by determining the weighted average value of the obtained grades.

Regardless of the results of the intermediate control, every student during the final knowledge progress testing has the right to perform the CDF, which contains tasks covering key disciplinary learning outcomes.

The number of specific tasks of the CDF should be consistent with the allotted time for completion. The number of CDF options should ensure that the task is individualized.

The value of the mark for the implementation of the CDF is determined by the average evaluation of the components (specific tasks) and is final.

The integral value of the CDF performance assessment can be determined by taking into account the weighting factors established by the department for each NLC descriptor.

6.3 EVALUATION CRITERIA

The actual student learning outcomes are identified and measured against what is expected during the control activities using criteria that describe the student's actions to demonstrate the achievement of the learning outcomes.

To evaluate the performance of the control tasks during the intermediate control of lectures and practicals the assimilation factor is used as a criterion, which automatically adapts the indicator to the rating scale:

$$O_i = 100 a / m,$$

where a - number of correct answers or significant operations performed according to the solution standard; m - the total number of questions or substantial operations of the standard.

Individual tasks and complex control works are expertly evaluated using criteria that characterize the ratio of competency requirements and evaluation indicators to a rating scale.

The content of the criteria is based on the competencies identified by the NLC for the Bachelor's level of higher education (given below).

General criteria for achieving learning outcomes 7th qualification for LDCs (BA)

Integral competence is the ability to solve complex problems and specialized practical problems in a particular area of professional activities or in a learning process that involves the use of certain theories and methods of the relevant scientific areas and characterized by complexity and conditions uncertainty.

descriptors NLC	Requirements for knowledge, communication, autonomy and responsibility	Indicator evaluation
Knowledge		
<ul style="list-style-type: none"> ◆ Conceptual knowledge acquired during the training and professional activities, including some knowledge of modern achievements; ◆ critical understanding of the main theories, principles, methods, and concepts in education and careers 	- A great - proper, reasonable, sensible. Measures the presence of: - conceptual knowledge; - a high degree of state ownership issues; - critical understanding of the main theories, principles, methods and concepts in education and careers	95-100
	A non-gross contains mistakes or errors	90-94
	The answer is correct but has some inaccuracies	85-89
	A correct some inaccuracies but has also proved insufficient	80-84
	The answer is correct but has some inaccuracies, not reasonable and meaningful	74-79
	A fragmentary	70-73
	A student shows a fuzzy idea of the object of study	65-69
	Knowledge minimally satisfactory	60-64
	Knowledge unsatisfactory	<60
Ability		
<ul style="list-style-type: none"> ◆ solving complex problems and unforeseen problems in specialized areas of professional and/or training, which involves the collection and interpretation of information (data), choice of methods and tools, the use of innovative approaches 	- The answer describes the ability to: <ul style="list-style-type: none"> - identify the problem; - formulate hypotheses; - solve problems; - choose adequate methods and tools; - collect and interpret logical and understandable information; - use innovative approaches to solving the problem 	95-100
	The answer describes the ability to apply knowledge in practice with no blunders	90-94
	The answer describes the ability to apply knowledge in practice but has some errors in the implementation of a requirement	85-89
	The answer describes the ability to apply knowledge in practice but has some errors in the implementation of the two requirements	80-84
	The answer describes the ability to apply knowledge in practice but has some errors in the implementation of the three requirements	74-79
	The answer describes the ability to apply knowledge in practice but has some errors in the implementation of the four requirements	70-73
	The answer describes the ability to apply knowledge in practice while performing tasks on the model	65-69
	A characterizes the ability to apply knowledge in performing tasks on the model, but with uncertainties	60-64
	The level of skills is poor	<60
Communication		
<ul style="list-style-type: none"> ◆ report to specialists and non-specialists of information, ideas, problems, solutions and their experience in the 	- Fluent problematic area. Clarity response (report). Language - correct; <ul style="list-style-type: none"> - - net; - - clear; - - accurate; 	95-100

descriptors NLC	Requirements for knowledge, communication, autonomy and responsibility	Indicator evaluation
field of professional activity; ♦ the ability to form an effective communication strategy	- - logic; - - expressive; - - concise. Communication strategy: coherent and consistent development of thought; availability of own logical reasoning; relevant arguments and its compliance with the provisions defended; the correct structure of the response (report); correct answers to questions; appropriate equipment to answer questions; the ability to draw conclusions and formulate proposals	
	Adequate ownership industry issues with minor faults. Sufficient clarity response (report) with minor faults. Appropriate communication strategy with minor faults	90-94
	Good knowledge of the problems of the industry. Good clarity response (report) and relevant communication strategy (total three requirements are not implemented)	85-89
	Good knowledge of the problems of the industry. Good clarity response (report) and relevant communication strategy (a total of four requirements is not implemented)	80-84
	Good knowledge of the problems of the industry. Good clarity response (report) and relevant communication strategy (total not implemented the five requirements)	74-79
	Satisfactory ownership issues of the industry. Satisfactory clarity response (report) and relevant communication strategy (a total of seven requirements not implemented)	70-73
	Partial ownership issues of the industry. Satisfactory clarity response (report) and communication strategy of faults (total not implemented nine requirements)	65-69
	The fragmented ownership issues of the industry. Satisfactory clarity response (report) and communication strategy of faults (total not implemented 10 requirements)	60-64
	The level of poor communication	<60
Autonomy and responsibility		
♦ management actions or complex projects, responsible for decision-making in unpredictable conditions; ♦ responsible for the professional development of individuals and/or groups ♦ the ability to continue study with a high degree of autonomy	- Excellent individual ownership management competencies focused on: 1) management of complex projects, providing: - exploratory learning activities marked the ability to independently evaluate various life situations, events, facts, detect and defend a personal position; - the ability to work in a team; - control of their own actions; 2) responsibility for decision-making in unpredictable conditions, including: - justify their decisions the provisions of the regulatory framework of sectoral and national levels; - independence while performing tasks; - lead in discussing problems; - responsibility for the relationship;	95-100

descriptors NLC	Requirements for knowledge, communication, autonomy and responsibility	Indicator evaluation
	3) responsible for the professional development of individuals and/or groups that includes: - use of vocational-oriented skills; - the use of evidence from independent and correct reasoning; - possession of all kinds of learning activities; 4) the ability to further study with a high degree of autonomy, which provides: - degree possession of fundamental knowledge; - independent evaluation judgments; - high level of formation of general educational skills; - search and analysis of information resources	
	Confident personality possession competency management (not implemented two requirements)	90-94
	Good knowledge management competencies personality (not implemented three requirements)	85-89
	Good knowledge management competencies personality (not implemented the four requirements)	80-84
	Good knowledge management competencies personality (not implemented six requirements)	74-79
	Satisfactory ownership of individual competence management (not implemented seven requirements)	70-73
	Satisfactory ownership of individual competence management (not implemented eight claims)	65-69
	The level of autonomy and responsibility fragmented	60-64
	The level of autonomy and responsibility poor	<60

7 TOOLS, EQUIPMENT, AND SOFTWARE

Technical training tools via multimedia software.

Distance learning platform Moodle.

8 RECOMMENDED SOURCES

Background

1. Basic safety / V.I.Holinko. - D.: NSU, 2014. - 271 p.

2. Holinko VI, SI Cheberiachko Workshop on health. D.: Textbook State University "NSU", 2011. - 270 p.

4. Civil Protection. Textbook / Zerkalov D., V. Mikheev, Prakhovnik NA Zemlyansky AV Edited by D. Zerkalov - K.: "Basis". 2014. - 234 p.

5. Security in human life environment: Training. manual / V.I.Holinko, D 04 M.V.Shybka, O.V.Bezchasnyy; Ed. V.I.Holinka. - 4 th ed., Revised. And add. - D.: National Mining University, 2008. - 191s.

6. Human security emergency: Training. manual / B 05 Ed. VI Holinka. - 4 th ed., Revised. and add. - D.: National Mining University, 2008. - 161 p.

Subsidiary

1. Holinko VI Cheberiachko SI Klochkov VG Analysis of the conditions in the workplace operators. Tutorial. D.: National Mining University, 2007. - 120 p.-

2. Monitoring conditions. Textbook / Holinko VI Cheberiachko SI windowpane MV Jaworski AA D .: State University "National Mining University", 2014. - 236 p.-

3. Workshop on Provision of assistance in the FIRST medytsynskoy neschastnyh cases (for Foreign studentov, obuchayuschyhsya the NSU) / VI Holynko, VE Frundyn, Ya.Ya. Lebedev, SI Cheberiachko, GP Kryvtsun D .: Natsyonalnyy Gorny University, 2008 - 67 p.-

4. Holinko VI Electrical safety. Tutorial - Dnepropetrovsk, NSU - 2010. - 76 p.

Information resources

1. **<http://www.dsp.gov.ua>** Official site Derzhpratsi Ukraine. -
2. **<http://www.mon.gov.ua>** The official website of the Ministry of Education and Science of Ukraine. -
3. **<http://www.dsns.gov.ua>** - Official site of the State Service for Emergency Situations.

Methodological Support

1. Holinko VI, SI Cheberiachko Workshop on health. Manual - State Universities D .: "NSU", 2011. - 270 p.

2. Methodical instructions and control tasks for the discipline "Fundamentals of safety" for external students of all specialties / life. VI Holinko, VU Frundin, Ya.Ya. Lebedev, AA Litvinenko Dnipropetrovsk National Mining University, 2006. 15s.--

3. Guidelines for independent work on discipline "Fundamentals of safety" for students of all specialties / Compilation .: V.I.Holinko, AA Jaworski, SI Cheberiachko ,. D .: RICK NMU. - 2010. - 35 p.

Educational edition

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