

THE COMPANY "DEL c.z." (CZECH REPUBLIC)  
NES NOVA DUBNICA sro (SLOVAK REPUBLIC)  
UNIVERSITY OF MALAYSIA PAHANG (MALAYSIA)  
UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO (MÉXICO)

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# MODERN SYSTEMS OF SCIENCE AND EDUCATION IN THE EUROPEAN UNION AND WORLD

**MATERIALS**  
OF THE V INTERNATIONAL RESEARCH  
AND PRACTICAL INTERNET CONFERENCE

January, 27, 2024

Zdar nad Sazavou, 2024

**DEL c.z.**

**DEL c.z. Strojírenská 38, 591 01 Žďár nad Sázavou, CZECH REPUBLIC**

**Materials of the V International Research and Practical Internet Conference "Modern Systems of Science and Education in the European Union and World", - 2024.**

**ISBN 978-966-8796-31-1**

**Modern Systems of Science and Education in the European Union and World :**  
Materials of the V International Research and Practical Internet Conference  
(January, 27, 2024) : collection of abstracts [for the general ed. Ph.D Serhii  
Onyshchenko]. Zdar nad Sazavou : "DEL c.z.", 2024. 42 p.

The collection includes materials of the V International research and practical internet conference "Modern systems of science and education in the European Union and world". The materials of the collection will be useful for researchers, scientists, graduate students, researchers, teachers, students

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**PEDAGOGY AND PSYCHOLOGY**

**ORGANIZATION OF THE EDUCATIONAL PROCESS OF ENERGY STUDENTS  
DURING INTERNSHIP**

**Serhii Onyshchenko,**  
PhD, Associate Professor  
(Berdyansk State Pedagogical University)

Energy is one of the most complex areas of engineering activity. In Ukraine, energy is one of the most developed and modern sectors of the country's energy sector. Reliable and trouble-free operation of energy enterprises largely determines the stability of industrial and agricultural production, as well as the sustainable energy supply of housing and communal services. Stable energy supply to the country is provided by employees of energy enterprises and organizations of Ukraine, personnel of energy services of industrial and agricultural enterprises. Training specialists for the energy sector is a very serious task, the successful solution of which requires interaction between the university and energy production.

The multicomponent goal of interaction between the Department of Vocational Education, Labor Training and Technology of Berdyansk State Pedagogical University and the country's energy enterprises is to: develop bases for industrial and pre-graduate internships; organizing and conducting training sessions in special disciplines directly at work; involving leading specialists from energy and research and production organizations in the educational process; strengthening scientific and industrial relations, creating an experimental base for scientific research.

The goal formulated above defines the following tasks: expanding the range of enterprises and organizations that are bases of practice; improving the processes of production and pre-diploma internships by improving the quality of their methodological support; development of the basis for the educational process in production; improving the quality of classes conducted at enterprises by improving the methodological and personnel support for these classes; attracting qualified leading specialists from energy and scientific-production organizations to give lectures, guide course design, and guide bachelor's graduation theses; organization of defenses of final qualified works at enterprises and organizations that are base for the department; ensuring communication with enterprises where graduates of the department work in order to receive feedback on the quality of graduates' preparation for professional activities and recommendations for improving this quality; creation of basic production sites for conducting scientific research in the areas of scientific activity of the department.

The Department of Vocational Education, Labor Training and Technology has developed work programs for all types of practices. Methodological manuals for students and teachers on internships have been published. Active use of these manuals, as well as the development of new teaching materials, including reference literature on practice bases, will improve the efficiency of industrial practice processes.

An important point in improving the quality of vocational education can be conferences based on the results of practice, at which students report the results of their practical activities at enterprises.

Most classes conducted in production have methodological support in the form of teaching aids, in which much attention is paid to the specifics of these classes, to the fact that production specialists take an active part in conducting such classes. One of the tasks of the Department of Vocational Education, Labor Training and Technology is the preparation of teaching materials for these specialists, containing programs and lesson plans, the main issues discussed in the classroom. Conducting joint seminars between teachers of the department of vocational education, labor training and technology and specialists involved in conducting classes in production will help improve the quality of these classes.

In many ways, the quality of on-the-job training depends on the qualifications and preparedness of the department's teacher. Preparation for the lesson should include studying the features of the enterprise, electrical diagrams, equipment descriptions, regulatory literature, as well as attending on-the-job classes conducted by experienced teachers of the department.

Also, the department traditionally practices involving leading specialists from energy and research-and-production enterprises in the educational process. Some of them give lectures on special subjects. We believe that specialists should be more actively involved in the management of course design, the management of bachelor's final qualified works, as well as in consultations for students performing these works.

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