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The Power Engineering Profession Is the Profession of the Future

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We live in a rapidly changing world, when technologies are transforming at a crazy speed. Today, time requires us to be mobile, able to quickly rebuild and make informed decisions. “Get a classical higher education that will last a lifetime” - this statement is no longer relevant. In the modern world, lifelong education is relevant, that is, you will have to study all your life if you want to be successful and in demand in the profession. A person must constantly "catch up" with new knowledge in order to keep up with the times, with new technologies.

Among other things, a modern person of any profession should ideally have elementary basic literacy, such as environmental, medical, economic, computer, spelling and speech, and, of course, a highly qualified specialist should know foreign languages.

Nevertheless, in the top of the professions in demand, fashionable in the labor market, there is an expert in digital transformation, a digital marketer, a YouTube manager, specialists in big data, artificial intelligence and so on.

These are the professions that can be mastered in online courses, various seminars. In my opinion, all these newfangled professions can bring you success if they become a modern addition to the main, fundamental education: economic, technical, humanitarian. Easier speaking, an engineer is great, and an engineer who owns IT technologies, and even

understands economics and knows several foreign languages, is already a different level and demand in the labor market.

Choosing from a variety of professions the one in which I would like to realize myself and which will become my life's work, I settled on the profession of an energy engineer.

I think that this profession has great prospects, it seems to me that the future is behind it and, I will not be afraid of pathos, this profession is the business of real men. After all, it is the representatives of this profession that today ensure the energy security of our country.

The strategic goals of the state in this direction are quite understandable and explainable: for its further development, it is extremely necessary for our country to provide itself with its own energy resources, technologies that will ultimately bring great benefits to the economy of the state as a whole and to every citizen in particular. This by and large affects the development of the country, strengthens its independence and sovereignty. The efforts of many specialists employed in the industry, from builders to specialists, contribute to success managing the most complex high-tech processes and systems.

The energy security of our state is ensured primarily through the development of our own energy resource bases. First of all, this is the construction and commissioning of the first nuclear power plant in Belarus with a capacity of 2400 MW. The prospects for our country as a result of the implementation of this project are increasing many times, and this is an indisputable fact. The energy security of the country is increasing, the share of natural gas in the energy balance is decreasing, greenhouse gas emissions are being reduced. The electric vehicle industry is developing at a high pace – and this is already a serious claim for the success of this industry in our country.

Returning to the theme of the profession, I would like to note that both now and in the future, energy engineers will be

especially highly quoted on the Belarusian labor market, and the demand for specialists in this industry is expected to increase.

I was interested in the specifics of my future profession, communicated with people working in this area. It became clear to me why this profession turned out to be quite difficult to master from the first academic semesters. Everything is explained very simply: in this profession there should not be random people, illiterate specialists, everything is very serious and extremely responsible here!

What are the disadvantages of the profession of an energy engineer from the point of view of existing specialists, professionals? First of all, working conditions associated with difficulties that not everyone is able to overcome. This is definitely not a desk job! Difficulties are not only professional, but also psychological in nature, since specialists working in this field often experience stressful situations, and a specialist must have a certain resistance to stress.

Another disadvantage is that a power engineer often performs work associated with a health hazard. In this regard, he is subject to increased requirements for labor protection and production safety.

And the most, perhaps, the key point: the work of an energy engineer in almost all enterprises is necessarily associated with a high responsibility for production, and most importantly, for the life and health of subordinates. It is here that strong specialized knowledge is needed, which must be demonstrated not only in the exam in the classroom, but also to put them into practice and be responsible for their actions.

An energy engineer simply must have an excellent understanding of the operation of equipment and technological systems, quickly and at minimal cost to repair this equipment, eliminate defects, and so on.

The tasks, of course, the profession sets are complex and, in order to cope with them, an energy engineer must clearly understand how the equipment is arranged, know what the principles of functioning of energy systems and their technical features are.

A professional is often responsible for the energy management of the entire enterprise, which means that the energy engineer will have to deal with the procurement of energy resources, control their costs in the organization. Here you cannot do without economic knowledge, and sometimes legal subtleties. This, by the way, is about that additional knowledge with which a modern specialist is simply obliged to replenish his intellectual baggage. Among other things, the work of an energy engineer is impossible without the use of high-tech computer equipment, software, which means that it is also necessary to understand and develop in IT technologies.

Summing up all that has been said, I would like to once again to emphasize that the future lies with the electric power industry in Belarus. This is already evidenced by new domestic developments in the field of electric transport: the demonstration of an experimental sample of the Belarusian roadster-two-seater electric car-cabriolet cannot but impress.

I really hope that, having received a fundamental education at the best technical university in the country – BNTU – at the Faculty of Energy, I will be able to build my "ladder of success" in the future and will never regret my professional choice. After all, energy is the future. And this is an indisputable fact!