

SPECIFICS
EDUCATIONAL PROGRAM “ENERGY MANAGEMENT
AND AUDIT”

1 Main objectives and tasks

Main objective of the program is training of the qualified experts intended for the solution of set of technical and organizational actions, directed on increasing of efficiency of energy resources use and being part of the general structure of business management.

The bachelor has to solve competently and responsibly the following characteristic integrated problems of the allocated kinds of activity:

- drawing up cards of energy consumption (the power passport);
- data collection on consumption the fuel energy resources (FER) with use of counters and instrumentations and scheduling of establishment of additional devices;
- data collection on a stream of raw materials, FER and ready-made products;
- drawing up and analysis of power balances;
- calculation of key parameters for increase in efficiency of energy use as a whole and on separate productions;
- localization, planning and introduction of measures for energy economy which don't demand investments, or their minimum quantity;
- localization, assessment, definition and planning of priority measures for energy economy which demand considerable investments;
- drawing up norms of consumption of FER;
- drawing up the scheme of an emergency stop of the equipment and power supply options for cases of emergency interruption in supply of energy;
- personnel informing at the enterprise about activities for power management and informing on measures which are directed on economy of energy;
- participation in development of production plans and enterprise strategy, drawing up budget;
- introduction of technologies which are based on existing and new power supply systems for increase of energy efficiency of production.

2 Expected final results

After completion of training the graduates become the qualified multifunctional workers who will find applications for the knowledge at the enterprises of any form of ownership: in scientific research institute, at the enterprises of power, the industry, transport, communication, technical departments of government bodies of the power, in the construction and design organizations, the network companies, in the organizations of production and delivery of energy carriers.

3 Model of the graduate

The bachelor in compliance the purposes of the Educational program and problems of professional activity has to:

1. Show knowledge and understanding in the field of the studying, formed on the basis of the general secondary education and include the certain aspects connected with the most advanced knowledge in the field of studying.
2. Application of the knowledge and understanding in the way testifying to professional approach to work or to a profession, also have the competences which are usually shown by means of formation and justification of arguments and the solution of problems within area of studying.
3. Carry out collecting and information interpretation for development of judgments taking into account social, ethical and scientific reasons.
4. Communicative abilities: give information, ideas, problems and the decision, both to experts, and no specialists.
5. Have such abilities in the field of training which are necessary for training continuation with high degree of autonomy.

Dean of Energy faculty

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