

DESCRIPTION OF THE EDUCATIONAL AND PROFESSIONAL PROGRAM

Field of knowledge 14 – "Electrical engineering"

Specialty 142 – "Energy Engineering"

Educational program - "Refrigerating machines and installations and air conditioning systems"

(second (master's) level of higher education)

Educational qualification "Master of Power Engineering"

Form of education: full-time

Availability of accreditation. National Agency for Quality Assurance of Higher Education

Accreditation certificate: No. 6134

The certificate is valid until November 21, 2024.

The educational program of the second (master's) level of higher education, specialty 142 "Energy engineering" is aimed at studying the processes occurring in energy installations (refrigeration machines and installations, air conditioning and life support systems, heat pumps, heat engines, heat exchange and technological devices, compressors, pumping equipment) and set specific tasks of scientific and applied projects and solve them with the help of modern research methods using the latest experience with the use of modern equipment and information technologies.

The purpose of the educational program is to train highly qualified specialists capable of solving complex specialized tasks and practical problems of power engineering, which require the application of certain theories and methods and are characterized by complexity and uncertainty of conditions.

Tasks of the educational program:

- formation of the ability to solve tasks of a research and/or innovative nature in the field of power engineering;
- specialists capable training of long-term planning and developing a strategy of professional activity, as well as developing projects and managing them;
- studying the processes of heat and mass exchange, hydrodynamics and aerodynamics, and the thermal stress state that occur in refrigerating machines, installations, pumping equipment, compressors, air conditioning and life support systems, heat pumps, heat exchange and technological devices in operating conditions;
- formation of the ability to analyze and comprehensively integrate modern knowledge from natural, engineering, socio-economic and other sciences to solve complex tasks and problems related to the design and operation of energy and heat technology equipment.