Specialty Program

GROUND VEHICLES AND
COMPLEXES OF AERODROME
TECHNICAL SUPPORT FOR
AVIATION FLIGHTS

The program is aimed at training highly qualified specialists capable of carrying out professional activities at all stages of development, production and operation of ground vehicles and complexes for aerodrome technical support for aviation flights using advanced:

- methods of calculation and design, research and testing;
- technologies and methods of organizing production;
- methods of ensuring reliability and minimizing operating costs.

The main task of the program is to form the personality of a future specialist, ensuring the development and formation of a professional, citizen, intellectual, possessing a modern scientific worldview, capable of professional, intellectual and social creativity.

Program length: 5.5 years
Starting date: September, 1st
Language of instruction: Russian
Tuition fee per year: 170,622 rubles (~2,340 USD)
Program Leader: Associate Prof. Yuri KAIZER

Prerequisites:

- Persons who have a state-recognized document on secondary (complete) general education or secondary vocational education, or primary vocational education, or primary vocational education, are allowed to master the EP VO, if it contains a record of the holder's receipt of a secondary (complete) general education, or higher vocational education.

- It is advisable for applicants to have enhanced training in mathematics and natural sciences

Qualification: Engineer

Skills/ objectives:

Graduates who have mastered the educational program can carry out professional activities in the design, production and operation of ground vehicles and complexes of aerodrome technical support for aviation flights, in particular, means of transportation, reception, storage, filtration and water separation, quality control and refueling of aviation fuels and lubricants in air systems, ships, machines and assemblies for the maintenance of aerodromes, machines and equipment for servicing aircraft, etc.

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CURRICULUM

- Introduction to the specialty
- Technical analysis of petroleum products and gas
- Fundamentals of the petroleum product supply system
- The history of the development of vehicles
- History of aviation development
- Introduction to the theory and practice of fuel supply
- Fundamentals of aviation technology and flight safety
- Aviation fuels and lubricants, special liquids and gases
- Chemotology
- Organization and safety of transportation of dangerous goods
- Ground structures and engineering networks
- Operation of aerodromes
- Machines and units for the maintenance of aerodromes
- Machines and units for servicing aircraft
- Design of aviation fuel supply facilities
- Buildings and equipment of warehouses for aviation fuels and lubricants
- Technology for preparing aviation fuels and lubricants for delivery to aircraft systems
- Technology and mechanization of aircraft ground handling
- Aircraft refueling systems and units with aviation fuels and lubricants
- Special purpose vehicle structures
- Technical systems management
- Technological processes of aviation fuel supply
- Quality control of aviation fuels and lubricants and special fluids
- Theory of special purpose vehicles
- Operation, diagnostics, repair and disposal of special purpose vehicles
- Organizational aspects of regulation of activities in transport
- Industrial and environmental safety
- Reliability of special purpose vehicles
- Technology for the production of special purpose vehicles
- Design of vehicles for special purposes
- Automated control systems for technical systems
- Computer-aided design systems in aviation fuel supply

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