

The objectives (mission) of the EP magistracy in the direction of study 7M07111 "Digital engineering of machines and equipment" / 6M072400 - Technological machines and equipment (magistracy) proclaims the study of a specialist who has:

- a set of personal qualities, scientific, pedagogical and professional competencies sufficient for the formation in the country (region) of modern digital technical engineering for the maintenance and service industry and advanced organization of production activities;
- the ability to reasonably combine the commercial principles of business activities, the satisfaction of public needs in the services of enterprises of the oil, mining and metallurgical industries with the humanitarian tasks of personnel development and social values of Kazakhstan society.

When forming EP objectives in the direction "7M07111 - Digital Engineering of Machines and Equipment" for the preparation of masters, the following are taken into account:

- focus on the competencies of graduates as learning outcomes (Learning Outcome-based Approach) in the development, implementation and evaluation of the program;
- requirements of the State Educational Standard of the specialty in the direction 7M07111 - "Digital Engineering of Machines and Equipment" (Master's degree);
- requirements of international standards ISO 9001: 2000, European standards and guidelines for quality assurance in higher education (ESG, Standards and Guidelines for Quality Assurance in the European Higher Education Area) within the Bologna process;
- requirements of the main employers of graduates.

The uniqueness of the EP "Digital Engineering of Machines and Equipment", developed within the framework of the State Educational Standard of Education, specialty:

- a high level of theoretical training in the field of socio-cultural, economic, legal and professional disciplines, taking into account the trends of modern scientific, pedagogical and professional social development, the inclusion in the educational process of leading domestic and foreign specialists in the field of services in technology;
- high level of language training;
- development of skills in design and research activities, implementation of projects aimed at the practical application of modern professional digital techniques and technologies for organizing the activities of oil, mining and metallurgical enterprises;
- the optimal ratio in the educational process of theoretical and practical training (due to the purposeful organization of research and production practices);
- personality-oriented approach to the educational process, focused on developing a responsible attitude to the results of their professional activities;
- the aspect of self-development, where the emphasis is placed on the organization of professional activities, within the framework of which the master's student is focused on continuous professional self-improvement.

1. Types of work

A feature of this master's program is the preparation of graduates capable of conducting the following types of professional activities:

- pedagogical;
- research;
- organizational and managerial;
- production and technological.

2. Objects of professional activity

The objects of professional activity of a graduate are:

- secondary specialized and higher educational institutions;
- mechanical engineering enterprises;
- design and engineering and research organizations;
- research institutes specializing in the design of technological equipment;
- organizations and companies specializing in the production of technological equipment.