03.27.01 STANDARDIZATION AND METROLOGY

Standardization and metrology specialists develop and apply normative, technical and methodological documents based on the State Standardization System. Their work helps develop the national economy, improve production efficiency, product quality and, as a result, the population's standard of living. In the oil and gas industry, the following are subject to metrological support:

• sampling stage for assessing the quality of raw materials;

• a set of physical and chemical methods for determining the quality of raw materials with the necessary construction of calibration graphs;

• the process of measuring the amount of oil extracted from sources;

• The process of determining the quantity and quality of crude oil and products obtained from it;

• a set of methods for recording possible leaks;

• systems for recording oil volumes at deposit sites.

Considering the important role of compliance of any modern product with national and international quality standards, graduates of this program are in high demand in a number of companies in various industries and services.

Where will they teach?

Standardization and metrology is one of the areas of the USTU Faculty of Technology, carried out by the Department of Electric Power Engineering, Metrology and Forestry Technologies.

The duration of full-time study is 4 years, and the duration of part-time study is 5 years.

Number of seats:

25 budget places for full-time education,

5 places under the agreement on the provision of paid educational services in full-time education,

25 places under the agreement on the provision of paid educational services in full-time and part-time education.

What will they teach?

- carry out activities to improve product quality, to improve metrological support, to develop new and revise existing standards, rules, regulations and other documents on standardization, certification, metrological support and quality management;

- participate in the practical development of quality management systems;

- confirm the conformity of products, production processes, services, with the requirements of technical regulations, standards or terms of contracts;

- assess the level of defects and analyze the reasons for their occurrence.

What job?

— Oil pipeline flaw detector ;

- Engineer;

—Metrologist engineer;

— Quality control engineer;

—Engineer for standardization, metrology and certification;

— Technical supervision engineer;

— Engineer for technological support of oil and gas production;

— Quality Management Engineer.

Employment prospects:

Industrial internships involve interaction with interested organizations and enterprises (employers), including:

- Federal Budgetary Institution "Komi CSM";
- JSC Transneft -Sever;
- LLC "Infrastructure TK"