

21.02.02 DRILLING OIL AND GAS WELLS

A driller (also known as a technician-technologist for drilling oil and gas wells) is a specialist directly involved in oil and gas production. His area of responsibility is the process of preparing and drilling oil and gas wells, monitoring the serviceability of equipment and its operation. The profession of a driller is one of the most common and in-demand in the oil and gas industry.

Where will they teach?

The specialty "Drilling oil and gas wells" is one of the areas of training at the Mining and Oil College of the Industrial Institute of USTU.

Duration of study: 3 years 10 months.

Number of seats

20 budget places for full-time education,

12 contractual places for full-time study.

You can continue your education at an advanced level and obtain higher education in the field of oil and gas processing at the Oil and Gas Faculty.

What will they teach?

✓ Conduct field observations and documentation of geological objects, work with a mountain compass

✓ Describe rock samples, determine the origin of landforms and sediments in various rocks based on the structure of fragments, determine the relative age of rocks, the physical properties of minerals, the structure and texture of rocks, and much more

✓ Identify industrial types of mineral deposits

✓ When constructing and repairing pipelines and storage facilities, determine the properties of construction and building materials, rocks and soils

✓ Monitor the parameters of drilling and cementing solutions, as well as drilling processes

✓ Carry out work in wells with complicated geological conditions and when drilling wells with a depth of over 4000 m

✓ Prevent and eliminate complications and emergency situations, including accidents involving the use of deep-well equipment

✓ Design and perform calculations for repair and insulation works

✓ Flush and clean wells from sand plugs, paraffin and inorganic salts

✓ Conduct underground well repairs

✓ Monitor the technical condition of surface and underground drilling equipment

✓ Participate in testing new drilling equipment, tools and devices for underground well repair

✓ Practice new drilling technologies

✓ Ensure prevention of industrial injuries and safe working conditions

✓ Monitor and analyze the process and results of the team's activities, evaluate the effectiveness of work

✓ Perform graphic images of technological equipment and technological processes manually and using machine graphics

✓ Read drawings, technological and design documentation on the profile of the specialty

What job?

• Driller

• Derrick assembler

• Geologist

• Oil and oil products quality controller

• Fastener

• Drilling rig operator

• Operator for oil and gas production, well survey, underground well repair, well cementing

• Miner