PETROLEUM
HIGHER SCHOOL

CATALOG OF ADDITIONAL PROFESSIONAL PROGRAMS

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Additional professional programs

Additional professional education is aimed at meeting educational and professional needs, professional development of a person, ensuring that their qualifications correspond to the changing conditions of professional activity and the social environment.

Additional professional education is implemented through additional professional programs (advanced training programs and professional retraining programs).

The purpose of an advanced training program is to carry out educational activities aimed at improving and/or acquiring new competencies required for professional activity, and/or enhancing the professional level within the framework of existing qualifications.

Upon completion of training, students are issued a standard document:

- Certificate of Advanced Training;
- Diploma of Professional Retraining.

We are ready to develop new targeted programs for Customers who are ready to form training groups from their specialists, as well as organize on-site courses at the production training bases of the enterprise.

License of the Federal Service for Supervision in Education and Science dated 28.04.2016,
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LIST OF ADDITIONAL PROFESSIONAL PROGRAMS

1. OIL AND GAS ENGINEERING

1.1. Organization and supervision of construction, workover, and reconstruction of oil and gas wells

1.2. Prevention and elimination of accidents during drilling of directional and horizontal wells

1.3. Well construction technologies: Experience and prospects

1.4. Hydraulic fracturing

1.5. Supervision of drilling of directional and horizontal wells

1.6. Hydrodynamic modeling in modern oil field development

1.7. Integrated modeling of oil field development processes

1.8. Oil and gas geomechanics

1.9. Closed-loop field development optimization based on 3D modeling and intelligent well systems

1.10. Monitoring the execution of well workover operations

1.11. Oil and gas engineering

1.12. Organization of well workover operations: Techniques, technology, and practice of well workover

1.13. Operation of main and auxiliary equipment of compressor stations

1.14. Complications in oil production

1.15. Applied models of multiphase filtration

1.16. Systematic methods for research and modeling of hydrocarbon deposits

1.17. Development of oil and gas fields

1.18. Hydraulic fracturing supervision

1.19. Corrosion protection technologies

1.20. Well workover technologies. Current state and prospects of well workover

1.21. Well surveys during drilling

1.22. Rational operation of wells using downhole pumps

1.23. Modern approaches to well operation with submersible centrifugal electric pumps

1.24. Methods for assessing oil and gas reservoir properties based on hydrodynamic well testing results

1.25. Modeling of surface infrastructure of hydrocarbon fields in IPM Petex

1.26. Technological trend analysis in geology and hydrocarbon field development

1.27. Geological and geophysical studies and data interpretation

1.28. Field geology and reserve estimation

1.29. Sedimentology, geophysics, and reservoir physics

1.30. Studies of petrophysical and reservoir properties of core samples

1.31. Requirements for the composition and formatting of materials submitted for state expert review on oil and combustible gas reserve estimation

1.32. Technologies for construction and reconstruction of gas pipelines, gas and water supply networks

1.33. Construction and operation technology of main gas pipelines

1.34. Technological reliability of pipeline transport

1.35. Operation of oil depots and storage facilities

1.36. Operation of gas distribution systems

1.37. Operation of the linear part and shut-off valves of main gas pipelines

1.38. Operation of oil pipelines

1.39. Drilling of oil and gas wells

1.40. Development and operation of oil and gas fields

1.41. Specialist in technical supervision and control during well construction (drilling supervisor)

1.42. Hydraulic fracturing

1.43. Modeling and management of hydrocarbon field development

1.44. Estimation and re-estimation of oil and gas reserves

1.45. Oil field development design

1.46. Design, construction, and operation of gas and oil pipelines and gas and oil storage facilities

1.47. Design, construction, and operation of oil and petroleum product pipelines and oil storage facilities

1.48. Oil and gas field geology and geophysics

2. AUTOMATION OF TECHNOLOGICAL PROCESSES AND PRODUCTION, ELECTRIC POWER ENGINEERING

2.1. Artificial neural networks and fuzzy logic in control and management tasks

2.2. Metrological support of automation tools

2.3. Electric power systems and networks

2.4. Energy efficiency and energy saving

2.5. Modern measuring instruments and metrology in oil and gas producing enterprises

2.6. Neural networks and deep learning

2.7. Automation of technological processes and production

2.8. Relay protection and automation of electric power systems

2.9. Power supply

2.10. Industrial thermal power engineering

2.11. Energy supply of enterprises

3. OIL AND GAS EQUIPMENT AND MECHANICAL ENGINEERING TECHNOLOGY

3.1. Modern challenges in oil and gas production. Problems and ways to update technological equipment

3.2. Technical diagnostics of centrifugal pumping units

3.3. AUTOCAD (basic level)

3.4. SOLIDWORKS (basic level)

3.5. KOMPAS-3D (basic level)

3.6. KOMPAS-3D (advanced level)

3.7. Technological equipment of oil and gas production

3.8. Mechanical engineering technology

4. ECONOMICS AND MANAGEMENT

4.1. Architecture of the digital economy

4.2. Statistical data analysis software packages

4.3. Corporate financial modeling

4.4. Economic efficiency of projects in energy saving and energy efficiency improvement

4.5. Economics and management at oil and gas industry enterprises

4.6. Organization management

4.7. Labor economics and personnel management

4.8. Project management

4.9. Banks and banking

4.10. Business analytics in economics and management