Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Верисокин Александр Евгеньевич
Должность: И.о. декана факультета нефтегазовой инженерии
Дата подписания: 10.06.2024 09:39:14
Уникальный программный ключ:
fd7a4d68f83235300c43c0b6f10966ab195e1d00

Annotation to the work program of industrial practice

Name practices	**технологическая практика / Technological Internship**
Brief content	The objectives of the technological practice in the direction of preparation 21.03.01 "Oil and gas business" are: - to prepare a student for solving organizational and technological problems in production and for completing a final qualifying work. - acquisition of professional competencies through direct participation V scientific the activities of the institute and the department, as well as the introduction of social and personal competencies necessary for work in the professional field. The objectives of the practice are: - consolidation of theoretical knowledge gained in the study of basic disciplines; - mastering the techniques, methods and ways of identifying, observing, measuring and controlling the parameters of production and technological processes; - preparation and execution of scientific, technical and service documentation; - obtaining skills for future professional activity; - direct participation in the work process of the enterprise (organization) with the performance of the duties of a specialist.
results development disciplines (module)	applies knowledge of the main production processes, representing a single chain of oil and gas technologies; is able, in combination with service companies and specialists of technical services, to adjust technological processes taking into account the real situation; owns the skills of managing production processes using modern equipment and materials. applies knowledge of the purpose, rules of operation and repair of oil and gas equipment; principles of organization and technology of repair work, methods of installation, adjustment and adjustment of equipment; is able to analyze the operation parameters of technological equipment; develop and plan the introduction of new equipment; owns the methods of diagnostics and maintenance of technological equipment (external and internal inspection) in accordance with the requirements of industrial safety and labor protection.

	applies knowledge of technological processes in the field of oil and gas business to organize the work of a team of performers; can make executive decisions in case of a range of opinions and conflicts of interest, determine the order of work; owns the skills of operational support of technological processes in the field of oil and gas business. applies knowledge of the concept and types of field documentation and the requirements for them; types and requirements for field reporting, main reporting documents, deadlines for submission, reporting algorithms; is able to generate applications for field research, the need materials; maintain field documentation and reporting; use field databases, geological reports; possesses the skills of maintaining field documentation and reporting. applies knowledge of the main production processes, representing a single chain of oil and gas technologies; functions of the production units of the organization and production links between them; rules for the technical operation of technological facilities of the oil and gas complex and methods for managing their operating modes; is able, in combination with service companies and specialists of technical services, to adjust technological processes taking into account the real situation; has the skills to manage production processes in the oil and gas industry using modern equipment and materials. knows the distribution of responsibilities between the personnel of production and service contractors in the performance of technological processes of oil and gas production; is able to ensure the implementation by contractors of design solutions for the technological processes of oil and gas production; owns information about the list of works assigned to specific contractors, incl. service organizations, about drilling, oil and gas field and auxiliary equipment. knows the location of process and auxiliary equipment at the production site, qualification requirements and functions of the ore team; is able to coordinate and manage the work of the team and service contractors at the production site; has the ability to coordinate the work of contractors to prevent emergency and emergency situations.

	applies knowledge of methods for organizing the work of technological processes of the oil and gas complex; is able to apply knowledge on the technological processes of the oil and gas complex to organize the work of a team of performers; make executive decisions in case of a range of opinions and conflicts of interest; determine the order of work; organize and monitor the work of an oil and gas facility; coordinate work on the collection of field data; possess the skills of organizing operational support of technological processes in accordance with the chosen field of professional activity. knows the methods of analyzing information on technological processes and the operation of technical devices in the oil and gas industry; knows how to plan and conduct the necessary experiments, process, including using applied software products, interpret the results and make appropriate ones; conclusions; has the ability to use the physical and mathematical apparatus to solve computational and analytical problems that arise in the course of professional activities. applies knowledge about the directions of scientific research in the oil and gas industry; gives a rationale for the relevance and purpose of their own research with their subsequent presentation at conferences and seminars; is able to write science-based reports on problems in the oil and gas industry; owns methods of presenting the results of his own research in the form of a computer presentation. knows the technique and technology of designing technological processes, technological complexes used in production, in particular systems of dispatch control, geological and technical control, etc., standard computer programs for calculating technical means and technological solutions; is able to analyze and generalize the experience of developing technical and technological projects, use standard software in the design of production and technological processes in the oil and gas industry; owns the skills of designing separate sections of technical and technological projects. knows normative documents, standards, current instructions, design methods in the oil and gas industry; is able to develop standard design, technological and working documents using computer-aided design of technological processes; owns innovative methods for solving the problems of designing technological and production processes in the oil and gas industry.
Labor intensity, cu	6

Forms reporting (in including by semesters)	Grading test, 6 semestr
List of basic and additional literature necessary for mastering disciplines	
Main literature	1. Safin, S.G. Introduction to oil and gas business: textbook / S.G. Safin; Ministry of Education and Science of the Russian Federation, Northern (Arctic) Federal University named after M.V. Lomonosov. - 2nd ed., revision. and additional - Arkhangelsk: NArFU, 2015. - 159 p. : diagrams, tables, illustrations. - Bibliography. in book. - ISBN 978-5-261-01053-1; 2. Neskoromnykh, V.V. Well drilling: textbook / V.V. indiscreet; Ministry of Education and Science of the Russian Federation, Siberian Federal University. - Krasnoyarsk: Siberian Federal University, 2014. - 400 p. : illustrations, tables, schemes. - Bibliography. in book. - ISBN 978-5-7638-3043-9
Additional literature	1. Basarygin, Yu. M. Technology of drilling oil and gas wells: textbook for universities / Yu. M. Basarygin, A. I. Bulatov, Yu. M. Proselkov. - M. : Nedra, 2001. - 679 p. 2. Basarygin, Yu. M. Drilling of oil and gas wells: textbook. allowance for universities / Yu. M. Basarygin, AI Bulatov, Yu. M. Proselkov. - M. : Nedra, 2002. - 632 p. 3. Bulatov, A. I. Drilling of horizontal wells : Ref. allowance / A. I. Bulatov, E. Yu. Proselkov, Yu. M. Proselkov. - Krasnodar: Soviet Kuban, 2008. - 424 p. 4. Volkov, A.S. Drill pipes and their connections: reference book. guide / A. S. Volkov, A. G. Kalinin, A. S. Bronzov. - M. : Gostoptekhizdat, 1962. - 128 p. - Bibliography. With. 127 5. Kalinin, A. G. Natural and artificial curvature wells: textbook. manual for universities / A. G. Kalinin, V. V. Kulchitsky. - M. : SIC "Regular and Chaotic Dynamics"; Izhevsk: Institute of Computer Research, 2006. - 640 p. 6. Podgornov, V. M. Completion of wells: textbook / V. M. Podgornov; Russian State University of Oil and Gas. I. M. Gubkina, Part 2, Formation of the bottomhole zone of a well. - M. : Nedra, 2008. - 253 p. : ill. – Bibliography: p. 251-253 7. Podgornov, V. M. Operational and exploration drilling on oil and gas: textbook. allowance / V. M. Podgornov. - M. : Nedra, 1988. - 325 p. : ill. - Bibliography. With. 323. - ISBN 5-247-00182-6 8. Podgornov, V. M. Fishing tool: textbook. allowance / V. M. Podgornov, I.P. Pustovoitenko. - M. : Nedra, 1984. - 148 p. : ill. – Bibliography: p. 147
	9. Podgornov, V. M. Workshop on completion of wells: textbook. manual for universities / V. M. Podgornov, I. A. Vedishchev. – M. : Nedra, 1985. – 256 p. : ill. – Bibliography: p. 253 10. Ryazanov, Ya. A. Encyclopedia of drilling fluids / Ya. A. Ryazanov. - Orenburg: Chronicle, 2005. - 664 p. 11. Tagirov, K. M. Drilling wells and opening oil and gas reservoirs on depression / K. M. Tagirov, V. I. Nifantov. – M. : Nedra, 2003. – 160 s. – Bibliography: p. 152-158.