

## Recommended training plan for specialists of petroleum industry within OGE Academy programs

Level Work area	Basic	Advanced	Expert
<b>Enhanced recovery</b>	<p>Enhanced recovery. Hydraulic fracturing and acidizing</p> <p>Hydraulic fracturing. Design and control</p> <p>Enhanced oil recovery: geological and technological aspects</p>	<p>Production cost reduction. Wellwork evaluation. Decision tree construction while wellwork selection.</p> <p>Physical and chemical EOR technics</p> <p>Formation damage and EOR</p> <p>Well injectivity: prediction, damage prevention, stimulation</p> <p>Petroleum Resources Management System (PRMS)</p>	<p>Multistage hydraulic fracturing</p> <p>Hydraulic fracturing quality assurance</p> <p>Productivity enhancement in gas-condensate reservoirs: theory, design, case studies</p> <p>Modern EOR technics</p> <p>Production performance support at different stages of field development</p> <p>Improved cost-effective waterflooding and EOR</p> <p>Seismic interpretation, integration with Rock Physics data</p>

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Production technology & Facilities	<p>Subsea production</p> <p>Design and operation of subsea pipelines and subsea systems</p> <p>Modern oil production technology. Oil and gas facilities fundamentals</p> <p>Artificial lift</p>	<p>Dropped objects prevention system at drilling and downhole facilities</p> <p>Flow assurance in heavy oil production</p> <p>Horizontal wells: applicability, construction, completion, productivity &amp; flow rate measurement</p> <p>Unconventional hydrocarbons</p> <p>Corrosion management principles</p>	<p>Applied integrated reservoir and production modeling</p> <p>Offshore development: environmental aspects</p> <p>Completion and workover supervising, onshore and offshore</p> <p>Completion design, onshore and offshore</p> <p>Horizontal and multilaterall wells. Well completion. Smart wells</p> <p>Complication control (scale, asphaltene deposits, corrosion)</p>
Fluid analysis	<p>Basic well log interpretation</p> <p>Applied well test design and analysis (gas)</p> <p>Applied well test design and analysis (oil)</p> <p>Physical and chemical analysis of rocks and fluids</p>	<p>Advanced well log interpretation</p> <p>Advanced well test design and analysis (gas)</p> <p>Advanced well test design and analysis (oil)</p> <p>Well logging for reservoir management</p>	<p>Reservoir fluid sampling and PVT analysis</p> <p>Machine Learning and Data Science for Upstream Professionals</p> <p>Seismic interpretation, integration with Rock Physics data</p>
Offshore Oil & Gas Engineering	<p>Subsea production</p> <p>Drilling and workover, offshore Russia</p> <p>Offshore operation features</p> <p>Modern offshore oil and gas facilities</p> <p>Design and operation of subsea pipelines and subsea systems</p>	<p>Offshore oil and gas facilities</p> <p>International standards for casing and tubing design, offshore and onshore</p> <p>Well planning and design: offshore Russia</p> <p>Offshore drilling</p>	<p>Offshore developments</p> <p>Offshore seismic: data processing and analysis</p> <p>Applied integrated reservoir and production modeling</p> <p>Environmental loads on offshore structures in the Arctic</p> <p>Offshore developments: ecological documentation</p> <p>Offshore developments: ecological documentation and environmental impact assessment</p> <p>Seismic interpretation, integration with Rock Physics data</p>

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<b>Ecology</b>	<p>Offshore developments: ecological aspects</p> <p>Dropped objects prevention system at drilling and downhole facilities</p>	<p>Ecological damage prevention: oil spill disasters</p> <p>Ecological damage prevention and countermeasure: oil spill disasters</p>	<p>Offshore developments: ecological documentation and environmental impact assessment</p>
<b>Field geology and well logging</b>	<p>Basic geological modeling</p> <p>Basic well log interpretation</p> <p>Physical and chemical analysis of rocks and fluids</p> <p>Sedimentology: lithofacies and formation analysis</p> <p>Rock physics and geophysics in petroleum geology</p> <p>Petroleum system modeling for sedimentary basins</p> <p>Gas condensate study</p> <p>Carbonate basin: genesis, secondary alteration, study methods</p> <p>Fundamentals of HCS modeling</p> <p>Oil &amp; gas traps, reservoir simulation</p>	<p>Advanced geological modeling</p> <p>Advanced well log interpretation</p> <p>Production logging and well monitoring</p> <p>Well logging for reservoir management</p> <p>Neural networks for geological easement development</p> <p>Modern well testing technics</p> <p>Petroleum Resources Management System (PRMS)</p> <p>Geomechanical modeling</p>	<p>Reservoir fluid sampling and PVT analysis</p> <p>Offshore seismic: data processing and analysis</p> <p>Reef complexes</p> <p>Modern geophysical study technics</p> <p>Machine Learning and Data Science for Upstream Professionals</p> <p>Seismic interpretation, integration with Rock Physics data</p> <p>Rock Physics for modeling of effective reservoir physical properties</p>

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Drilling and workover	<p>Drilling and workover, offshore Russia</p> <p>Basic drilling for non-professionals</p> <p>Drilling, completions and well testing</p> <p>Dropped objects prevention system at drilling and downhole facilities</p>	<p>Directional drilling</p> <p>Drilling Fluid Engineering</p> <p>Workover operations</p> <p>Risk management in well construction</p> <p>Drilling and workover supervision</p> <p>Deviated well construction</p> <p>Drilling supervising, onshore and offshore</p>	<p>MWD of horizontal and directional wells</p> <p>Geo-steering and M/LWD</p> <p>Well Planning: process design for directional and horizontal wells drilling</p> <p>Underbalanced drilling, tools and technology</p> <p>Well profile design</p> <p>Coiled tubing in drilling and workover</p> <p>Flushing fluids mixing and application</p> <p>Modern well completion and workover techniques: horizontal and multilateral wells. Rigless-techniques</p> <p>Completion and workover supervising, onshore and offshore</p>
Field development	<p>Multidisciplinary approach to reservoir simulation</p> <p>Petroleum geochemistry</p> <p>Basic reservoir simulation: modern approaches to design, application and assessment</p> <p>Development of gas fields</p> <p>Basic waterflooding: physics, technologies, field cases</p> <p>Model control: part 1 - geological modeling</p> <p>Model control: part 2 - reservoir modeling</p> <p>Oil and gas production for non-specialists</p>	<p>Effective Reservoir Management</p> <p>Waterflood management: productivity decline and EOR</p> <p>Advanced reservoir simulation: modern approaches to design, application and assessment</p> <p>Developing oil fields with massive gas caps</p> <p>Advanced waterflooding: physics, technologies, field cases</p> <p>Smart field: from tools to optimization</p> <p>Neural networks for geological easement development</p> <p>Geomechanical modeling</p>	<p>Waterflood in carbonate reservoirs</p> <p>Heavy oil waterflooding</p> <p>Reservoir simulation: practical aspects</p> <p>Applied integrated reservoir and production modeling</p> <p>Reservoir simulation: modern approaches to design, application and assessment (expert level)</p> <p>Machine Learning and Data Science for Upstream Professionals</p> <p>Improved cost-effective waterflooding and EOR</p> <p>Modern well completion and workover techniques: horizontal and multilateral wells. Rigless-techniques</p> <p>Rock Physics for modeling of effective reservoir physical properties</p>

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Soft skills	<p>Effective communication: maximum communication tactics (training)</p> <p>Stress management: individual action plan</p> <p>Personal effectiveness: planning and self-motivation (training)</p>	<p>Modern manager: advanced leadership and coaching</p> <p>Team building and development: effective management of group processes</p> <p>Successful international cooperation: features of business communication with foreign partners</p> <p>Effective communication and personal growth (based on Schultz von Thun and Riemann-Tomann models)</p>	
International affairs	<p>Basic Petroleum English</p> <p>Basic Petroleum English for management</p>	<p>Advanced Petroleum English</p> <p>Advanced Petroleum English for management</p> <p>Successful international cooperation: features of business communication with foreign partners</p>	<p>Oil trading</p>
Information Technologies	<p>Basic Excel practical training for oil and gas professionals</p>	<p>Advanced Excel practical training for oil and gas professionals</p> <p>Advanced MICROSOFT EXCEL</p> <p>Smart field: from tools to optimization</p> <p>Neural networks for geological easement development</p>	<p>MICROSOFT EXCEL.: Visual Basic for Applications</p> <p>MICROSOFT EXCEL: enhanced options</p> <p>Machine Learning and Data Science for Upstream Professionals</p>

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Economy, management and consulting	Budget as a business planning tool Production management. H&R management	Project management: standards and technologies Advanced sales management Business assessment and decision making Advanced strategic analysis Advanced MICROSOFT EXCEL	Internal procurement for petroleum sector: optimization technics Strategic management in Oil & Gas business: theory and practice MICROSOFT EXCEL: Visual Basic for Applications MICROSOFT EXCEL: enhanced options

For any further information, please contact: [MatyshenkoNS@oilteam.ru](mailto:MatyshenkoNS@oilteam.ru)