Introduction to the Oil and Gas Industry

Who should attend

- Beginning specialists in the oil and gas industry
- Oil and gas professionals who wish to obtain an integrated overview of the oil and gas industry as a whole
- Translators who need in-depth understanding of oil and gas terminology.

Objectives

- To obtain an understanding of the activity of vertically integrated oil and gas company
- To review the oil and gas exploration processes, deposits research, drilling, extraction, transportation, processing of crude oil and gas, refining, and sale of products
- To give a short overview of forms of agreements between companies and the government, as well as to review relevant taxation issues
- To discuss risk aspects of oil and gas industry.

Training methodology

- Training is conducted in an interactive form and includes a number of case studies.
- Training participants are provided with specially designed training materials in Russian.

Training outline

Day 1

Origin and variety of hydrocarbons

- Geological and historical conditions
- Composition and classification of crude oil and natural gas
- Units of measurements for oil and gas and their cross calculations
- International classification of deposits
- Russian share in the world oil and gas deposits
UPSTREAM activities
- Methods of reserve exploration: seismic and exploratory drilling
- Drilling for production: inclined, horizontal and cluster wells
- Processes of oil and gas lifting and preparation for transportation
- Investment cycles of oil and gas field development: similarities and differences
- Secondary methods of oil extraction: boosting of inter reservoir pressure and hydraulic fracturing
- Shale gas and oil extraction, other nontraditional deposits development
- Oil recovery factor and restoration of natural deposits

DOWNSTREAM activities
- Main processes of oil refining
- Rectification under air pressure and vacuum: products at the output
- Cracking and its types: thermal cracking, catalist cracking, hydrogen cracking
- Other processes of modern oil refineries: alkylation, isomerization, catalytic reforming, hidrotation and blending
- Structure of modern oil processing enterprise

Day 2
- Characteristics of the modern and complex oil refineries: Nelson complicity index (NCI), depths of refinery, light products output
- Advanced technologies for natural gas processing: Gas-to-Liquid (GTL) and Liquid natural gas (LNG). Tankers’ transportation
- Introduction to oil and gas chemistry: plastics production

Transportation of oil, gas and oil products
- World practice of transportation and Russian specifics
- Existing and prospective oil and gas pipelines in Russian Federation

Pricing of crude oil and natural gas:
- Historical retrospective of oil prices
- Supply/Demand theory and its influence on price
- OPEC (Organization of Petroleum-Exporting Countries) and its influence on pricing and world oil supply

How to apply?
Please complete the registration form online at our web site: http://bit.ly/2ePIADJ