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"ENHANCED OIL RECOVERY: GEOLOGICAL AND TECHNOLOGICAL ASPECTS", 5 days

COURSE OBJECTIVE:

Improvement of professional competencies of specialists in sphere of moving to development of hard-to-recover reserves, small inaccessible fields, unconventional hydrocarbon sources, which require huge investments in research, new technology development, infrastructure, geological and technological screening, forecasting and monitoring of new formation stimulation technology efficiency.

ACQUIRED ABILITIES:

- analysis of low recovery ratio reasons and find possible stimulation mechanisms;
- assess the possibility of stimulation activities for certain fields;
- make forecast and result assessment of enhances oil recovery methods application;
- differentially prove technology solutions for various categories of invention tasks.

COURSE CONTENT:

Module Name	Content
Classification and characterization of enhanced oil recovery methods	Classification of secondary and tertiary enhanced oil recovery techniques. Hydro-dynamic methods. Physicochemical methods. Physical methods. Gas methods. Thermal methods. Microbiological methods. Quaternary methods.
Methodology of geo-technical reasoning, forecast and assessment of EOR efficiency	Criteria of EOR application efficiency in different geo-physical conditions. Methodology of complex geo-technical reasoning and forecast of EOR application for major oil and gas regions. Principles of target objects selection for LMS. Use of expert data system for EOR application forecast.
Geo-technical features of EOR application at CIS and world fields	Geo-technical features of second and tertiary EOR application at oil fields of Urals-Volga region. Geo-technical features of EOR application at oil fields of Western Siberia. Geo-technical features of EOR application at oil fields of North Caucasus-Mangyshlak Russian petroleum province. Summary of EOR experience at Russian fields. Prospects of oil production technologies development.