TECHNICAL EDUCATION ACADEMY

Hesham Mokhtar

Instructor

A highly skilled Petroleum Engineer with more than 14 years of experience delivering technical solutions to improve exploration and production (E&P) performance. Brings strong expertise in Pressure, Volume, and Temperature (PVT) analysis, fluid properties, reservoir evaluation, and dynamic simulation, with a proven ability to support asset optimization and field development decision-making.

Has extensive experience in managing and coordinating comprehensive PVT and core analysis studies, including quality assurance of laboratory testing. Demonstrates strong capability in fluid property modeling and equation-of-state (EOS) analysis using advanced software such as Eclipse PVTi and IPM PVTP, providing critical input for production optimization and reservoir management. Also experienced in conducting full-system IPR-VLP analyses using IPM Prosper to support production diagnostics, problem-solving, and performance enhancement.

In addition to PVT specialization, offers a solid background in reservoir evaluation and dynamic simulation, including material balance analysis, volumetric assessments, and dynamic reservoir modeling to forecast performance and optimize field development plans. Proficient in industry-standard tools such as Petrel RE, Eclipse 100, and KAPPA Saphir Workstation, with strong expertise in reservoir characterization, pressure transient analysis, and economic evaluation.

Combines technical depth with effective communication and instructional skills, enabling the delivery of impactful training programs that support the development of professionals in exploration and production operations. Also maintains professional affiliation with the Society of Petroleum Engineers (SPE) and the Egyptian Engineers Syndicate.