



Well Performance and Nodal Analysis Fundamentals

MODULE

About the Skill Module

This skill module explains the key principles in analyzing well performance parameters of any production (or injection) well using the principles and practices of NODAL™ analysis, also referenced as system analysis. Inflow and outflow equations are developed, multiphase hydraulics are reviewed, the building blocks of NODAL™ analysis are expanded, and several exercises are worked.

Target Audience

Petroleum engineers, production operations staff, reservoir engineers, facilities staff, drilling and completion engineers, geologists, field supervisors and managers, field technicians, service company engineers and managers, and especially engineers starting a work assignment in production engineering and operations or other engineers seeking a well-rounded foundation in production engineering.

You Will Learn

Participants will learn how to:

- Collect and validate required data to evaluate well performance using computer modeling, performance history matching and predict potential problems
- Calculate productivity index and estimate basic reservoir parameters by interpreting a simple pressure buildup analysis in conventional and unconventional resources plays
- Identify flow restrictions from basic inflow performance analysis, recommend actions to improve well productivity, and describe how to use choke equation calculations and its limitations

Product Details

Categories: [Upstream](#)

Disciplines: [Production and Completions Engineering](#)

Levels: [Foundation](#)

Product Type: Individual Skill Module

Format: On-Demand

Duration: 9 hours (approx.)

\$795.00