



## Flow Assurance and Production Chemistry

### MODULE

#### About the Skill Module

The term “Flow Assurance” and the tools of “Production Chemistry” comprise this skill module’s content to examine the identification, remediation, and preventive aspects of common wax, asphaltene, scale, and corrosion problems common to most all hydrocarbon production scenarios in one manner or another. Each of these problems requires the application of varied principles and practices of production chemistry in various ways to directly address the control and removal of these complications which negatively impact production. Pictures, illustrations, and examples of typical field problems and challenges faced are developed with the singular goal of presenting proven, least cost, safe remedies to return production to its initial, expected rate.

#### 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:

- Typical oilfield “flow assurance” issues and problems due to: waxes, asphaltenes, inorganic scales, and corrosion
- How to interpret revealing signs of corrosion and erosion failure, scale formation, and related downhole deposits and how to prevent or minimize their production loss effects
- How formations become damaged due to related flow assurance and production chemistry issues
- The importance of collecting data to categorize options to choose an optimum well prevention and treatment plans
- How to recognize, prevent, remove, and manage organic paraffin and asphaltene field deposits
- How to recognize, prevent, remove and manage typical common soluble and insoluble scales in oil and gas operations
- The importance of using oilfield production chemistry to resolve production problems
- The conditions required for the formation of gas hydrates
- How ice crystals and methane in pipelines can lead to severe plugging of lines if not prevented from occurring or regularly removed by pigging operations
- The methods employed to treat gas hydrates in pipelines

## **Product Details**

Categories: Upstream

Disciplines: Production and Completions Engineering

Levels: Basic

Product Type: Individual Skill Module

Format: On-Demand

Duration: 5 hours (approx.)

**\$395.00**