



## Formation Damage and Matrix Stimulation

### MODULE

#### About the Skill Module

This skill module addresses less than expected production results following initial completion or any well intervention operation and the many possible causes involved. Characteristics of formation damage are explained. Matrix acidizing (acidizing operations conducted at treatment pressures less than fracture pressure) is developed for both limestone and sandstone formations to improve production. Important principles of candidate selection and job planning and execution are addressed.

[See example online learning module](#)

#### 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:

- The basic causes of oilfield formation damage and how they are recognized
- The concept of "True Formation Damage" and the principles of formation remediation once it has been correctly identified as being the cause of lost production
- How "pseudo" damage and differs from True Formation Damage
- The principles of limestone matrix acidizing and the chemistry and reactions involved
- The principles of sandstone matrix acidizing and the chemistry and reactions involved
- Formation damage identification and the positive results achieved by successfully conducting matrix acidizing jobs

#### Skill Module Content

- Formation Damage
- Matrix Stimulation

#### Product Details

Categories: Upstream

Disciplines: Production and Completions Engineering

Levels: Basic

Product Type: Individual Skill Module

Format: On-Demand

Duration: 3 hours (approx.)

**\$395.00**