



## Scale Identification, Remediation and Prevention Workshop - SIR-3 - Virtual, Blended Learning

### COURSE

#### About the Course

This workshop will be delivered virtually through PetroAcademy. Each PetroAcademy offering integrates multiple learning activities, such as reading assignments, self-paced e-Learning, virtual instructor-led sessions, discussion forums, group exercises, case studies, quizzes, field trips, and experiential activities.

[See demo of online learning and instructor-led modules.](#)

Activities include 10 hours of instructor-led, virtual training sessions, plus 16 hours of self-paced online work.

[See detailed schedule](#)

Scale identification, remediation, and prevention is an essential part of a production or workover engineer's scope of work. This workshop provides a comprehensive overview of dilemmas in operating producing and injection wells related to the presense of a variety of oilfield scale types - primarily reduction in pipe carrying capacity and localization of corrosion attack - deposition mechanisms, identification methods, various removal techniques and methodologies for its prevention. Upon completion, participants will be aware of the scale problem, understand ways to remediate it and prevent it subsequent deposition. Specific mathematical scale prediction methods are presented and numerous preventative, both chemical and unique approaches, are covered.

#### Target Audience

Asset managers, drilling and completion engineers, petroleum engineers and geologists, independent producers, production managers and engineers, field supervisors, company executives and officials, field personnel with operating and service companies.

Participants should have at least one year of operations-related experience and be in a supervisory or support role.

#### You Will Learn

Participants will learn how to:

- Reconize the importance of the various scales, appreciate the problems they create
- Understand how water, pressure, temperature and salinity affect scaling
- Identify various scale deposition mechanisms

- Determine scaling potential and the solubility of various scales
- Apply the two principle methods for scale identification and recognize various methods and their application for removing scale depending on its composition
- Understand precipitation tendency variables and locations for various scale deposits - especially iron - and be familiar with three mathematical models that predict scaling, including a popular software program
- Properly prevent and inhibit scale formation and deposition using various methods

## Course Content

### BLENDDED LEARNING WORKSHOP STRUCTURE

This program is comprised of the following activities:

**ILT** = Virtual Instructor-led Training

**OL** = Online Learning Activity/Reading

**EX** = Online Exercises

Week	Activity	Hours (Approx)	Subject	Virtual Instructor-led Session hours  Central US time zone (GMT-5)
Week 1	<b>ILT</b>	1.0	Kick-off Session: Overview	Tuesday, 6 Sept, 08:00-09:00
	<b>OL</b>	2.0	Scale, Water and Deposition	
	<b>EX</b>	2.0	Scaling Potential Exercise	Thursday, 8 Sept, 08:00-10:00
	<b>OL</b>	2.0	Factors Affecting Deposition	
Week 2	<b>ILT</b>	2.0	Scale Identification and Removal	Tuesday, 13 Sept, 08:00-10:00
	<b>OL</b>	2.0	Scale Identification and Removal	
	<b>ILT</b>	2.0	Scaling Tendency / LSI Exercise	Thursday, 15 Sept, 08:00-10:00
	<b>OL</b>	2.0	Rice U ScaleSoftPitzer Software	

Week 3	<b>ILT</b>	2.0	Scale Prevention and Inhibition	Tuesday, 20 Sept, 08:00-10:00
	<b>OL</b>	2.0	Scale Prevention and Inhibition	
	<b>EX</b>	1.0	Final Project	Thursday, 22 Sept, 08:00-10:00

## Product Details

Categories: [Upstream](#)

Disciplines: [Production and Completions Engineering](#)

Levels: [Intermediate](#)

Product Type: [Course](#)

Formats Available: [Virtual](#)

Instructors: [William Ott](#)