

Studio ScaleChem Basics (SCB)

Description: Two, 3-hour sessions in upstream electrolyte simulation with OLI Studio: ScaleChem.

Summary The **Studio ScaleChem Basics** course introduces the OLI Studio: ScaleChem interfaces, describes how the software handles scaling problems, and touches on some important mineral chemistry.

Who should attend: Beginning and prospective OLI clients. Class is designed for participants with little or no knowledge of OLI simulation techniques. Intermediate level clients wanting to refresh their skills may also join this class; there are extra problems in each section that allow for independent inquiry.

Instructor: AJ Gerbino, PhD, an electrolyte simulation expert and author of the workshop

Cost: **Web Training (SCB, Short Course)** via WebEx
\$450 USD per seat (multiple participants allowed per seat)

Custom sessions designed for your company onsite or online. Please contact Pat McKenzie for more details about custom trainings at pat.mckenzie@aqsim.com

Register: Online: <http://olitraining.aqsim.com>
Email: dira.salama@aqsim.com
Phone: USA 1-973-998-0240 x114

OLI Software: All participants receive 30-day evaluation copies of the full OLI Studio, which includes Stream Analyzer, Corrosion Analyzer, and Studio ScaleChem.

Studio ScaleChem Basics Course Content

This workshop will teach upstream electrolyte chemistry concepts and electrolyte simulation techniques using a training manual that starts by modeling a single well. The chapters get progressively more advanced as participants learn more features about the software.

Chapter 1 – Introduction to ScaleChem

This is a General Introduction chapter that participants can view in advance or following the course.

Chapter 2 – Creating a New Brine and Scale Calculation

Participants will learn the basics of entering a brine analysis and calculating a scale tendency. Some of the key elements taught, are to distinguish among the three reconciliation options and to consider scaling as a function of production rate at standard conditions.

Chapter 3 – Entering a Gas Analysis

Participants will enter a gas analysis and calculate water saturation in the gas.

Chapter 4 – Reservoir Saturation

Participants will learn how to set the initial solid saturation conditions at certain conditions. This chapter describes the merits of assuming equilibrium saturation between solids and the contacting waters.

Chapter 5 – Contour Diagrams

Participants will calculate scaling tendencies and other variable using a different approach, which shows results with contour diagrams.

Chapter 6- Building a New Case

Having some experience with building a well, participants will build a new case from the ground up.

Chapter 7 – Facilities

Participants will learn how to use the advanced facilities application. This application allows users to create simple process flow scenarios.

Chapter 8 & 9 – Example Applications

These two chapters cover wells taken from real world examples. The purpose of these applications are to show both the ease of straight-forward production wells, and the

Chapter 10 – Alkalinity

Participants will run several calculations pertaining to Alkalinity. This chapter reinforces the importance of Alkalinity to the properties of a produced water and its impact on overall mineral scale potential.