

## EFDC\_Explorer7.1 - Level 2 Training Course Agenda

### Water Quality Modeling and Introduction to EFDC Source Code

**October 29-30 2014 – Beijing, China**

Note that this training course is Level 2 and assumes a basic understanding of the EFDC\_DSI / EFDC\_Explorer Modeling System. Those people who wish to participate that have never used EFDC\_Explorer are encouraged to work through the online video tutorials and example models available on our website. For more information please contact us at: [ee\\_training@ds-intl.biz](mailto:ee_training@ds-intl.biz)

Day 1 – Session 1	Welcome, Introduction
Day 1 – Session 2	EFDC Water Quality Theory Overview
Lunch Break	
Day 1 – Session 3	EFDC_Explorer Water Quality Interface
Day 1 – Session 4	Hands On – 1D Model – Conservative/Non-conservative Dye

Day 2 – Session 1	Hands On – 2D Lake – Adding Water Quality to Existing Example
Day 2 – Session 2	Hands On – 2D Lake – Configuring and applying Sediment Diagenesis
Lunch Break	
Day 2 – Session 3	EFDC Model Code Review – General Overview
Day 2 – Session 4	EFDC Model Code Review – Water Quality Modules Question and Answer

### Level 2 Water Quality Course Objectives

Objective 1: Overview of EFDC/EFDC\_DSI Water Quality Capabilities

- EFDC Water Quality Theory
- EFDC Data Structure, Initial Conditions, Boundary Conditions

Objective 2: Overview of EFDC\_Explorer (FULL) Water Quality Capabilities

- EFDC Data Structure, Initial Conditions, Boundary Conditions
- EE User Interface for Water Quality Modeling
- Building and assigning WQ initial and boundary conditions
- Introduction to the Sediment Diagenesis Sub-Model

Objective 3: Hands on Modeling Practice

- Hands on with EFDC\_Explorer and EFDC\_DSI
- Creating a model
- Providing solutions to user problems

Objective 4: Introduction to the EFDC Code

- Structure of EFDC Code – Water Quality Modules
- Key Aspects of the EFDC Code