

EFDC_Explorer7.3 - Level 2 Training Course Agenda

Water Quality Modeling

November 4-5, 2015 – 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

Day 1 – Session 1	Introduction
Day 1 – Session 2	EFDC Water Quality Theory
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 – Water Quality Modeling, Analysis/Post Processing
Lunch Break	
Day 2 – Session 3	EFDC Model Code Review – Water Quality Modules
Day 2 – Session 4	Questions and Answers

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 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

Objective 3: Hands on Modeling Practice

- Hands on with EFDC_Explorer and EFDC_DSI
- Creating a model with WQ

Objective 4: Introduction to the EFDC Code

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