

EFDC_Explorer7.2 - Level 2 Training Course Agenda

Water Quality Modeling and Oil Spill Modeling

9-10 April, 2015 – Ho Hai University, Nanjing, 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	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	Lagrangian Particle Tracking and Oil Spill Modeling Theory Hands On - Oil Spill Modeling
Day 2 – Session 4	Hands On - Oil Spill Modeling Question and Answer

Level 2 Water Quality and Oil Spill 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/ EFDC_DSI Modeling System
- Creating a model
- Providing solutions to user problems

Objective 4: Introduction to Lagrangian Particle Tracking and Oil Spill EFDC_DSI sub-model

- LPT and Oil Spill Theory
- Key Aspects of Oil Spill model setup and implementation