

## EFDC\_Explorer7 - Level 2 Training Course Agenda

**Daejeon, South Korea**

**November 12-14, 2012**

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.

Day 1 – Session 1	Welcome, Introduction, Installation of EE7, Copying Training Course files. Overview of new features in EE7
Day 1 – Session 2	Overview of EFDC_DSI/EE7 WQ Transport Modeling Capabilities
Lunch Break	
Day 1 – Session 3	WQ Modeling Issues for South Korea
Day 1 – Session 4	EFDC Model Code Review (1 <sup>st</sup> Part)

Day 2 – Session 1	Hands On – WQ Transport Modeling (1D Model)
Day 2 – Session 2	Hands On – WQ Transport Modeling (1D Model)
Lunch Break	
Day 2 – Session 3	Hands On – WQ Transport Modeling (2D Lake)
Day 2 – Session 4	Hands On – WQ Transport Modeling (2D Lake)

Day 3 – Session 1	Hands On – Calibrating Example Models
Day 3 – Session 2	Hands On – Calibrating Example Models
Lunch Break	
Day 3 – Session 3	EFDC Model Code Review (2 <sup>nd</sup> Part)
Day 3 – Session 4	Solving Example Problems by Request

## **EFDC\_Explorer – Level 2 Training Course Objectives**

Objective 1: Overview of EFDC\_Explorer7 (FULL) WQ Modeling Capabilities

- EFDC Data Structure, Initial Conditions, Boundary Conditions
- EE7 User Interface for Water Quality Modeling
- Overview of Kinetic Options
- Initial conditions & boundary conditions for WQ
- Benthic Flux and Algae Options
- Applying and calculating Secchi Depths

Objective 2: Overview of EFDC\_Explorer7 (FULL) Calibration Tools

- Use EFDC\_Explorer for pre- & post – processing
- Capabilities of EFDC\_DSI & EFDC\_Explorer for Calibration
- Model calibration & validation

Objective 3: Hands on Modeling Practice

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

Objective 3: Introduction to the EFDC Code

- Structure of EFDC Code
- Key Aspects of the EFDC Code

For more information please contact us at: [ee\\_training@ds-intl.biz](mailto:ee_training@ds-intl.biz)