

WEAP ONLINE, INTERACTIVE TRAINING COURSE – SYLLABUS

DESCRIPTION

The WEAP Training course provides an introduction to the fundamental and intermediate features of WEAP. WEAP ("Water Evaluation and Adaptation Planning") is a user-friendly modeling software platform developed by the Stockholm Environment Institute that takes an integrated approach to water resources planning.

The course supports the development of skills to use WEAP to support integrated water resources management in an interactive, online environment. While basic computer proficiency is expected, no prior experience using WEAP or other water modeling software is required. The course consists of 3 training days of 3 hours each, for a total of 9 hours. A certificate of course completion is provided upon successful completion of the course.

LEARNING OBJECTIVES

At the end of this course, you will be able to:

- Describe the role of WEAP in supporting integrated water resources management and the steps required to build a WEAP model
- Build your own basic WEAP model from scratch, using the automatic catchment delineation tool
- Model basic urban and agriculture demands
- Create and run alternative scenarios
- Model basic groundwater, reservoirs, and flow requirements
- Navigate and export WEAP results and create customized results dashboards and maps

COURSE OUTLINE

The course will follow the first several chapters of the tutorial listed below. Note that the exact timing and content may depend on the interest of the participants. The course includes opportunities for questions and discussion to enrich the learning each day.

Pre-training meeting (1 hour), Nov 3. 7AM -8 AM PST.

This mandatory 30-minute meeting is intended to ensure that all participants can participate actively in the training and optimize their learning experience. In this meeting we will clarify expectations and any doubts about the training and ensure that all participants have downloaded WEAP and necessary course materials, have access to GoToTraining, can share their screens, and are prepared for the training.

Day #1: Introduction to WEAP and model setup Nov 10: 7AM -10 AM PST.

Describe the role of WEAP in supporting integrated water resources management and the steps required to build a WEAP model

Build an initial WEAP model, that includes urban and agricultural demands

Day #2: Learn the intermediate supply, demand and data entry features of WEAP; Nov 17: 7AM -10 AM PST.

Create and run alternative scenarios

Use WEAP's automatic catchment delineation function (to create rivers, catchments and download data)

Day #3: Learn more about hydrology calculations and look towards more advanced features; Nov 24: 7AM -10 AM PST.

Model basic groundwater, reservoirs, and flow requirements

Navigate and export WEAP results and create customized results dashboards and maps

CONTACT INFORMATION

For any questions or comments, please contact us at: weaptraining@sei.org