

2025 LSPC Training Track

Tues, Sept. 16, 2025 9:00 AM – 12:00 PM (3.0 hrs)

Overview of Watershed Modeling & Data Needs

- Objectives of Model Training
- Lecture: Introduction to Watershed Modeling
- Lecture: Discussion on Training Watershed and Data Needs
- Lecture: Introduction to BASINS and BASINS data download tool
 - Exercise: Build BASINS project for the training watershed
- Lecture: Introduction to Watershed Segmentation (BASINS Manual/Auto-Delineation Plugin)
 - Exercise: Auto-Delineate Basins of Interest

Tues, Sept. 16, 2025 1:30PM - 4:00 PM (2.5 hrs)

Input Data Processing for Watershed Modeling

- Lecture: Overview of Weather Data Sources and Processing Tools
- Demo: Weather Processing Routines
 - Exercise: Download Weather data through Weather Processor
 - Exercise: Calculation of Hourly PET using the Weather Processor
- Lecture: Point Source Processing

Wed, Sept. 17, 2025 9:00 AM – 12:00 PM (3.0 hrs)

Introduction to LSPC

- Lecture: Introduction to LSPC
- Demo: LSPC BASINS Plug-in
 - Setting up and Running LSPC
 - Creating Sub-Models & Scenario Runs
- Demo: Introduction to LSPC GUI and Parameters
- Exercise: Build an LSPC model using BASINS LSPC Plug-in for watershed of interest

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Wed, Sept. 17, 2025 1:30PM - 4:00 PM (2.5 hrs)

Watershed Model Calibration

- Lecture: LSPC Model Theory & Calibration Parameters
- Demo: Generating Calibration/Sensitivity Runs
- Lecture: LSPC Hydrology Calibration
- Exercise: Creating & Running Calibration Runs

Thurs, Sept. 18, 2025 9:00 AM – 12:00 PM (3.0 hrs)

Post Processing Watershed Model Outputs

- Lecture: Post-Processing LSPC outputs using RScripts and WRDB
- Demo: RScripts Calibration
- Demo: Post-Processing for WRDB WASP input
- Lecture: Introduction to WASP Builder – BASINS Plugin
- Demo: WASP Builder

Thurs, Sept. 18, 2025 1:30PM - 4:00 PM (2.5 hrs)

Linking Watershed Output to Water Quality Models – Case Study WASP

- Lecture: Introduction to WASP Interface
- Lecture: Introduction to Linking LSPC to WASP
- Demo: Mapping LSPC Flows to WASP
- Demo: LSPC to WASP Mapping Process

Fri, Sept. 19, 2025 9:00 AM - 10:30 AM (1.5 hrs)

- Q&A & Wrap-up