This course provides a well-balanced mix of lessons, demonstrations and exercises for a comprehensive intro to two-dimensional modeling concepts, including background data necessary to support a model, hydraulic modeling parameters, mesh development, model simulation parameters, model calibration, hydraulic structures, and reviewing two-dimensional model results. Extracting hydraulic parameters for use in bridge scour evaluation is also discussed. Each concept is demonstrated with hands-on exercises. Upon completion, participants should recognize situations where two-dimensional modeling is preferred and use SMS to successfully compile, execute and review results for an SRH-2D model on a bridge or other hydraulic structure project.

Prerequisites: Participants should have knowledge of the fundamentals of open channel flow hydraulics. The free web-based training course, NHI 135091 "Basic Hydraulic Principles Review" is available as a refresher.

Who Should Attend? – Federal, State, and local hydraulics personnel or other consulting engineers with responsibility for or desire to work with hydraulic analysis and design of highway river crossings.

Instructors – Specialists from Aquaveo, LLC (Provo, UT).

Registration Information – LTAP is managing the registration process for ALL participants. The registration fee is $850.00, as established by NHI. Any registrant requiring a reasonable accommodation during training (i.e., mobility or access) should contact Ohio LTAP prior to the course date so the appropriate arrangements can be made. Note: Registrants who will be unable to attend the training after registering are required to cancel a minimum of 21 days prior to the course start. Staff substitutions are encouraged. No refunds will be processed for cancellations less than 21 days prior to course start.

Please visit https://ltap.enrollware.com/schedule to access the online registration system. Select the course name from the Schedule page, and then scroll down to click on the session date/location highlighted in green font to proceed. You will have the option to pay the registration fee by credit card or check.

ODOT Employees Payment Information:
Please provide your District/Division ______ Cost Center ______ SAC _______ in the ADDITIONAL INFORMATION section (Q010) of the online registration form. The $850 fee will be charged to your account. Registrations submitted without payment information will not be processed.

If you have any questions regarding your registration, please contact Ohio LTAP at ltap@dot.ohio.gov or (877) 800-0031.