

# HYDRAULIC MODELING FOR WATER UTILITY DISTRIBUTION SYSTEMS

February 22-23, 2021  
Online | Central Time



***“Great class! It was useful to be able to try out the software during the course. Kedric did a great job of catering to participants with no modeling experience as well as those with many years of experience.”***

Project Engineer, Parker Water & Sanitation District



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This course introduces hydraulic models for water utility distribution systems and covers how modeling can be applied to benefit water utilities. Ensuring a robust and redundant infrastructure, reducing operating costs, planning for outages, and determining fire fighting capabilities are some of the items that attendees should have new ideas about after this course.

Hydraulic Modeling for Water Utility Distribution Systems will highlight the fundamentals of modeling including the purpose of a model, inputs, and results while covering the more challenging basics of data collection, defining capacity and demand, and outage analysis.

## LEARNING OUTCOMES

Upon completion of this course, participants will be able to successfully:

- Layout the components of a hydraulic model
- Collect hydraulic modeling data from GIS and other sources
- Define Hydraulic Grade Line (HGL) and Headloss and interpret the impacts to HGL in the distribution system and pressure pipe models based on minor Losses
- Assign consumption to the model
- Recognize how to ensure robust and redundant infrastructure
- Determine fire-fighting capabilities
- Analyze the distribution system
- Perform outage analysis and better plan for outages
- Assess water quality within the distribution system
- Refine operational modeling skills: linking the model to SCADA, forecasting, and forensics
- Optimize operations and reduce costs



EUCI is authorized by IACET to offer 1.1 CEUs for the course

## INSTRUCTOR

**Kedric Szana**, Water Modeling Specialist, Denver Water



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# REGISTRATION INFORMATION

## Mail Directly To:

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Greenwood Village, CO 80111  
OR, scan and email to: [conferences@euci.com](mailto:conferences@euci.com)

[WWW.EUCI.COM](http://WWW.EUCI.COM)

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# ONLINE DELIVERY & PARTICIPATION DETAILS

EUCI will use Microsoft Teams to facilitate participation in the upcoming event. Attendees do not need to have an existing Teams account to participate in the broadcast. The course will play in attendee's browser. When attendees sign on, their microphones are typically muted. Attendees should keep their mic muted until such time as it's needed to ask a question. During the event, participants will have the option of using a microphone to speak with the room and ask questions, or type in any questions via the chat window and our online administrator will relay your question to the instructor.

- Each attendee will receive an event invitation by e-mail, which will include one link to sign on for each half-day of the event (i.e., three links for a 1 1/2 day event). The appropriate link must be used to join each half-day event segment at the appropriate time.
- The remote meeting connection will open approximately 30 minutes before the start of the course. We encourage attendees to connect as early as possible in case of unforeseen problems.

## PLEASE SELECT

**HYDRAULIC MODELING FOR WATER UTILITY DISTRIBUTION SYSTEMS ONLINE COURSE**

FEBRUARY 22-23, 2021, 2020: US \$1,195 (Single Connection)

**PACK OF 5 CONNECTIONS:** US \$4,780 (20% Discount)

**PACK OF 10 CONNECTIONS:** US \$8,365 (30% Discount)

**PACK OF 20 CONNECTIONS:** US \$14,340 (40% Discount)

**Please call us at 303-770-8800 if you have any specific questions on the volume discounts.**

*\*all other discounts do not apply to license packs*

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name

Job Title

Company

Address

City

State/Province

Zip/Postal Code

Country

Phone

Email

## CREDIT CARD INFORMATION

Name on Card

Billing Address

Account Number

Billing City

Billing State

Exp. Date

Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

Billing Zip Code/Postal Code

**OR** Enclosed is a check for \$ \_\_\_\_\_ to cover \_\_\_\_\_ registrations.

### Substitutions & Cancellations

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before January 22, 2021 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at 303-770-8800.

EUCI reserves the right to alter this program without prior notice.

