

2D and Dam Breach Modeling in HEC-RAS

3-Day Course Outline

Presented by:



WEST Consultants, Inc.

www.westconsultants.com

Day 1

<u>Event</u>	<u>Time</u>
Introductions and Administration	8:00 - 8:30
Lecture: Introduction to 2D Modeling in HEC-RAS	8:30 - 9:45
Break	9:45 - 10:00
Lecture: Unsteady Flow Review	10:00 - 10:45
Workshop and Review: Lateral Structures/Storage Areas (start)	10:45 - 12:00
Lunch	12:00 - 13:00
Workshop and Review: Lateral Structures/Storage Areas (end)	13:00 - 13:30
Lecture: 2-D Theory	13:30 - 14:45
Break	14:45 - 15:00
Lecture: RAS Mapper	15:00 - 16:00
Lecture: Creating 2D Areas (start)	16:00 - 17:00

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Day 2

<u>Event</u>	<u>Time</u>
Lecture: Creating 2D Areas (end)	8:00 - 8:30
Workshop and Review: Creating a Mesh	8:30 - 10:30
Break	10:30 - 10:45
Lecture: Introduction to Dam Breach Modeling	10:45 - 12:00
Lunch	12:00 - 13:00
Lecture: Setting up a RAS Dam Breach Model	13:00 - 14:00
Workshop and Review: Inline Weir and Breach (start)	14:00 - 15:00
Break	15:00 - 15:15
Workshop and Review: Inline Weir and Breach (end)	15:15 - 16:00
Lecture: Diagnosing a RAS Dam Breach Model	16:00 - 17:00

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Day 3

<u>Event</u>	<u>Time</u>
Workshop and Review: Diagnosing a RAS Dam Breach Model	8:00 - 10:00
Break	10:00 - 10:15
Lecture: Fixing a RAS Dam Breach Model	10:15 - 11:15
Workshop and Review: Fixing a Breach Model (start)	11:15 - 12:00
Lunch	12:00 - 13:00
Workshop and Review: Fixing a Breach Model (end)	13:00 - 14:45
Lecture: Calibration of Dam Breach Models	14:45 - 15:45
Lecture: Case Studies/Student Projects/Demos	15:45 - 16:45
Summary and Closure	16:45 - 17:00