

3-Day Civil 3D, Flood Analysis and Stormwater Tools Training

When: July 17-19, 2018
8:00 am - 5:00 pm (Please arrive 30 minutes early the first day)

Where: **Northern Illinois University (NIU Naperville)**
1120 East Diehl Road, Naperville, IL 60563

Registration: **\$975 (includes breakfast & lunch for 3 days) Or \$375 for one day**
Register online: <https://www.illinoisfloods.org/event/3/6/3-day-civil-3d>
Registration is limited, so please register early

Deadline: July 6, 2018

Description IAFSM has partnered with Advanced Solutions to provide a custom Civil 3D training tailored to meet the specific needs of the IAFSM members. Advanced Solutions is an Autodesk Authorized Training Center (ATC) and Autodesk Platinum Partner that offers a wide range of Autodesk certified training. This 3-day course will include short lectures followed by hands-on computer workshops, which will include training on the fundamentals of Civil 3D 2018 and the stormwater tools associated with the software. Each participant will receive a copy of "AutoCAD Civil 3D Essentials: Autodesk Official Press," which serves as an excellent reference during and after the course. **Prior to taking the course, attendees should be familiar with AutoCAD.**

Each participant will need to bring a laptop with Civil 3D 2018 installed (a link for a trial version will be provided to download the software).

Please direct any questions regarding this course to Shauna Urlacher at (630) 393-3090 or via e-mail at surlacher@eraconsultants.com.

Instructors: Leo Lavayen
Leo is a Senior Infrastructure Consultant and a certified Civil 3D Associate and Professional with over 12 years of experience. His focus is providing custom Civil 3D training and implementations with extensive experience in roadway, stormwater and sewer design.

PDH's: PDH's will be provided upon completion of an Autodesk survey

3-Day Civil 3D 2018, Flood Analysis, and Stormwater Tools Training

DAY 1	DAY 2	DAY 3
<p><u>MORNING</u></p> <p>Introduction</p> <ul style="list-style-type: none"> • Introducing Civil 3D • Basic Interface and Commands • Understand the Importance of a Civil 3D Template File • Working with Toolspace and Ribbons • Intro to Transparent Commands • Creating and Labeling Lines • Chapter 1 <p>Surfaces</p> <ul style="list-style-type: none"> • Importing points from a survey text file • Creating from Point Data • Adding Boundaries and Breaklines • Surface Edits • Creation from DEM Data* • Creation from GIS Data* • Creation from Contours • Applying Surface Analysis • Volume Basics • Chapter 4 <p><u>AFTERNOON</u></p> <p>Alignments</p> <ul style="list-style-type: none"> • Creation from AutoCAD Objects • Creation by Layout • Alignment Constraints • Editing Alignments • Labeling • Chapter 6 <p>Profiles</p> <ul style="list-style-type: none"> • Sampling from Surfaces • Creating by Layout • Create from File • Matching Elevations • Transparent Commands • Labeling • Chapter 7 <p>Intro to Profile Views</p> <ul style="list-style-type: none"> • Basic Setup • Creating Profile Views • Split Views • Staggered Views • Band Sets • Chapter 7 	<p><u>MORNING</u></p> <p>Assembly Creation</p> <ul style="list-style-type: none"> • Tool Palettes • Catalogs • Assembly Creation • Subassembly Editing • Best Practices (Ditches/Trenches) • Chapter 8 <p>Basic Corridors</p> <ul style="list-style-type: none"> • Simple Corridors • Grip Editing • Surface Targets • Chapter 9 <p>Sections</p> <ul style="list-style-type: none"> • Creating and Editing Sample Lines • Single Section Views • Multiple Section Views • Chapter 12 <p><u>AFTERNOON</u></p> <p>Pipe Network Parts Lists</p> <ul style="list-style-type: none"> • Basic Setup • Building Parts Lists • Assigning Styles • Adding a Part Size • Pipe & Structure Rules • Chapter 13 <p>Pipe Network Creation</p> <ul style="list-style-type: none"> • Creating by Layout • Creating from Objects • Editing Parts • Merging Networks • Labeling in Plan • Drawing in Profile • Labeling in Profile • Crossing Views in Profile • Chapter 13 • Chapter 19 	<p><u>MORNING</u></p> <p>Grading Tools</p> <ul style="list-style-type: none"> • Feature Lines and Sites • Grading • Composite Design Surfaces • Chapter 14 <p>Label Styles</p> <ul style="list-style-type: none"> • Label Options and Text Settings • The Role of Annotation Scaling • Adding Leaders, Text Overrides • Chapter 18 <p>Object Styles</p> <ul style="list-style-type: none"> • Marker Styles • The Role of Annotation Scaling • Surface and Profile View Styles <p><u>AFTERNOON</u></p> <p>River and Flood</p> <ul style="list-style-type: none"> • Review Settings • Configure/ Cutting Cross-Sections • Cross Section 1 Data • Remaining Cross Sections Data • Defining Profile Flows • Compute Analysis/Flooding Map • Create an Output Report • Importing HEC-RAS File <p><u>Storm and Sanitary Analysis</u></p> <ul style="list-style-type: none"> • Create a catchment object • Export pipe data from Civil 3D software into SSA • Export a stage-storage table from Civil 3D software • Model drainage systems in SSA <p>Civil 3D Environment</p> <ul style="list-style-type: none"> • Water Drop Command • Catchments • Discharge Point • Flow Path Segments • Time of Concentration • Exporting Pond Designs • Exporting Pipes to SSA <p>Storm and Sanitary Environment</p> <ul style="list-style-type: none"> • Role of Hydraflow • Hydrology Methods • Exporting Pipe Networks • Making it Rain • Culvert Design • Pond Analysis