

FREE - Autodesk University Extension Classes

AIT Spatial Ltd is holding three Special Events on 7th, 8th and 11th December 2009 with a focus on Civil Engineering; Geospatial and Facilities Management and finally Customization and Programming.

These are designed to give clients an opportunity to view some of the classes held at the Autodesk University which takes place on 1st-3rd December 2009 in Las Vegas, US.

Although each session is run as an on-line class display, we plan to have an experienced user on hand to answer any questions at the end of each session.

These Extension Classes will be held at our Training Centre in Wellingborough, Northamptonshire. Refreshments will be provided.

Civil Engineering - 7th December 2009

AGENDA

8.30 – 9.00am	Arrival
9.00 – 10.00am	Session 1
10.00 – 10.20am	Break
10.20 – 11.20am	Session 2
11.20 – 11.50am	Break
11.50 – 12.50pm	Session 3
12.50 – 1.30pm	Break/Lunch
1.30 – 2.30pm	Session 4
2.30 – 2.50pm	Break
2.50 – 3.50pm	Session 5
3.50 – 4.10pm	Break
4.10 – 5.10pm	Session 6

Session 1 **AutoCAD Civil 3D: Survey Exposed!**
(Joe Hedrick)
Learn how to take full advantage of the survey capabilities included in Autodesk Civil 3D. During this session we will dig into the tools and explore tips and techniques that will make any land surveyor successful! Special attention will be placed on field coding and field collection, processing and adjusting survey data, creating topographic surveys, and stakeout.

Session 2 **Don't be left out in the CODE**
(Chad Studer)
Creating Assemblies and Corridors are relatively easy in AutoCAD Civil 3D. However, displaying this data for deliverables may prove more of a challenge. To simplify this display, styles can be created and associated with code sets. Code sets use links, points, and shape codes to display your data in plan, 3D, and section views. We will apply multiple code sets to achieve more information and to display your data efficiently. The goal of this session is to display corridors in plan view for production drawings, automate hatching to show proposed pavement location, display real world materials to the corridor, review corridor design with subassembly data in 3D, show typical sections correctly in section views and use this typical section for plan sheets. This session will benefit all professionals who understand the basics of Civil 3D.

Session 3 **Engineering Geology with AutoCAD: Go Solid!**
(Robert Marschallinger)
Learn how to represent and integrate outcrop and borehole data, geophysical and subsurface infrastructure data in 3D, and create internally consistent solid models of geology and infrastructure. Blend the solids by Boolean operations to derive arbitrary profile sections, synthetic drillings or excavated rock masses, and round-trip the derived 3D models with Autodesk Design Review in the geotechnical work group. The presented work flows apply to excavation pit design, tunnelling, open-pit, and subsurface mining as well.



Session 4 The Road to Success: Corridor Modeling

(Scott McEachron)

Curb cuts, intersections, knuckles, cul-de-sacs. Learn the essentials of corridor design for subdivisions, railway, and runway. We'll explore assembly creation, how to apply assemblies appropriately, and how to troubleshoot your designs.

Session 5 Leveraging AutoCAD Civil 3D and Autodesk Navisworks to Bid and Build a More Efficient Project

(Seth Cohen)

Here's the scenario: we are a company that builds pipe networks using micro-tunneling technology. When we bid on projects, one of our main concerns is whether or not we will encounter materials under the ground... but under the ocean! Even though the plans say one thing, we've done enough micro-tunneling projects to know that we will encounter materials that were not discovered during the design phase. In the past, based on our experience, we could estimate where we would encounter those types of materials. But now, we will use some of the coolest tools available from Autodesk to better visualize where those materials will be, and how we will construct our projects. We will use AutoCAD Civil 3D, along with Autodesk Navisworks, to very quickly see where we will encounter these different interferences, and to help us better plan the construction of our projects.

Session 6 Wow! That Surface is Huge! Working with Large Surfaces

(Kevin Faraca)

Learn the best practices for dealing with DEM and LIDAR surfaces. We will take an in-depth look at how to use surface styles, boundaries, and surface editing tools to generate usable surfaces from what can often be an extreme amount of data. Co-presenters Kevin Closson and Kevin Faraca will share their over thirty years of combined experience within the civil/survey industry. The Kevin's (a.k.a. K1 and K2) are considered industry leaders in implementing, customizing, and training Autodesk® Civil 3D® throughout the Pacific Northwest.

**If you are interested in attending this event, or would like further
information, please contact us on
training@aitspatial.co.uk or phone us on 01933 303034**