VISUALIZING GEOTECHNICAL DATA IN AUTODESK AUTOCAD CIVIL 3D

Credits: Valid for 8 AIA hours/LUs
Prerequisite: Working knowledge of a Windows OS, familiarity with Site Investigation process and basic knowledge of AutoCAD
Available Times: 1 days, 9:00am-5:00pm; 2 mornings, 9:00am-1:00pm;

OBJECTIVE

This one-day hands-on course includes training on the production of site plans, engineering profiles, 3D Boreholes and geological models using the Autodesk Geotechnical Module or the Keynetix HoleBASE SI Extension for AutoCAD Civil 3D.

TOPICS INCLUDE

INTRO TO AUTOCAD CIVIL 3D This portion of the class will give attendees an overview of AutoCAD Civil 3D functionality.

IMPORTING DATA Students will gain the knowledge on how to manage and import borehole data.

INTRO TO HOLEBASE SI This section will give attendees an overview of the extension and module functionality.

MANAGING BOREHOLES DATA Students will discover how to create, style and manage boreholes data.

CREATING STRATA SURFACES In this portion, attendees will learn how to create, style and manage and strata surfaces.

GENERATING DYNAMIC GEOTECHNICAL PROFILES This section will focus on how to create dynamic geotechnical profiles with borehole logs.

MANAGE XYZ POINT GROUPS Students will explore how to visualize downhole data with XYZ Point Groups and Surfaces.

GEOLOGY MODELING This section of the class will go over the fundamentals of modelling geology in AutoCAD Civil 3D, which includes:
- Using feature lines as break lines in geotechnical surfaces
- Using break lines to model a fault
- Using break lines to model Lenses