

Training the GIS Professional

BIM-GIS Integration for Architecture, Engineering & Construction - 2 days

Overview

The first day of this 2-day course is delivered by Steven Eglinton (Director of BimEnable & GeoEnable). Steven introduces an overview of BIM (Building Information Modelling) & Asset Information in the context of UK BIM Level 2 (BS / PAS 1192) & International Standards (ISO 19650). Steven will set the scene for the advantages and management of Geo-Enabling your BIM processes including process improvement and change management. Finishing with GIS/BIM applications including the Internet of Things, Smart Cities and Gemini Principles – the UK National Digital Twin.

Delegates will put the theory and principles learned on the first day with Steven into practice. The second day is delivered by an Esri UK & Ireland Instructor where delegates will experience demonstrations and hands-on exercises using the ArcGIS platform to integrate with CAD and BIM datasets. You will learn the workflows associated with handling GIS & CAD data and BIM models utilising geoprocessing tools and interactive analysis within ArcGIS Pro. You will also learn how to effectively publish data to ArcGIS Online, so you can collaborate and engage, to provide views of your BIM processes in a geographic and narrative context to your audiences.

Who should attend

■ If you are interested to align BIM with GIS and are a GIS, Geomatics, Surveyor, Architect, Engineer Technician or Professional who contribute to a BIM process.

Goals

- Be able to add and explore GIS/CAD/BIM data in ArcGIS Pro
- Create LOD1 3D building models
- Perform Exploratory Analysis on models
- Share BIM models in a simple 3D scene in ArcGIS Online
- Create a StoryMap to engage with stakeholders

Topics Covered

- BIM overview: UK & International standards, Requirements, Process Improvement, CDE vs SDI.
- Applications of BIM and GIS: IoT, Digital Twins. Smart Cities/Infrastructure.
- Plan; Data sources, Convert GIS data to CAD format.
- Design; Import BIM models to an ArcGIS Pro Scene, Methods for creating 3D models, Share models to ArcGIS Online.

Topics Covered Cont.

- Build; Create an ArcGIS Online Scene, Introduction to ArcGIS Configurable Apps, Create an ArcGIS StoryMap to engage with stakeholders.
- Operate; Configure a Survey 123 for ArcGIS & ArcGIS Operations Dashboard to monitor key activities, Learn how to perform table joins and relates to keep spatial tables up-to-date, Add them to a storymap or shared Group

Prerequisites

Attendance of either our Introduction to ArcGIS Pro for Newcomers or Introduction to ArcGIS Pro for GIS Professionals courses or equivalent working knowledge.

Contact Us

For GIS training enquiries and bookings visit esriuk.com/learning, email us at learning@esriuk.com or call us on 01296 745504