Start to Finish: complete Bim workflow with Autodesk Infrastructure Design Suite

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Who we are?

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Class summary
What we'll see?

Step by step we will develop one design road with IDS.
Total length: 1+300 km – 2 Bridge – 1 Tunnel – 1 Retain Wall
At the end of this class, you will be able to:

- Starting for use InfraWorks 360, AutoCAD Civil 3D, AutoCAD Map 3D, 3ds Max and Navisworks;
- Understand Bridge Module and Civil Structure
- Understand Civil View extension
- Understand the power of BIM workflow with Infrastructure Design Suite
Where is our project?
Step 1: InfraWorks 360 Conceptual Design
Step 2: AutoCAD Civil 3D

- S1: Cut & Fill
- S2: RetainWall - Cut & Fill
- S3: Bridge
- S4: Tunnel
Step 3: Autodesk Subassembly Composer
Step 4: Bridge Module for AutoCAD Civil 3D

Bridge 1 – B1
0+620.00 m – 0+800.00 m

Bridge 2 – B2
0+880.00 m – 1+150.00 m
Step 4: Civil Structure for Revit

Bridge 1 - Concrete Box Girder

Bridge 2 - Concrete Slab with Girders
Step 5: AutoCAD Map 3D

- Same GIS data used in InfraWorks
- Editing new GIS Data (conversion)
- Tematic Map
- Apply Overlay
- Export results as *.csv for Office Application
Step 6: 3ds Max
Step 7: Navisworks

Most of Our Geometry are designed with AutoCAD Civil 3D → DWG
Also Revit 3D object can be managed as DWG (EXPORT)

What We Need?
Step 7: Navisworks

Focus on:
- Coordination
- Clash Detection
- TimeLiner
Let's start with Hand’s On Lab
Step 1 : InfraWorks 360
Conceptual Design: from here...
Step 1 : InfraWorks 360
...to here
Step 1 : InfraWorks 360
“Alignment”
Step 1: InfraWorks 360 Profile
Step 1: InfraWorks 360 Assemblies
Step 2: AutoCAD Civil 3D

S1 – Cut & Fill

S2 – Retain Wall – Cut & Fill

S3 – Bridge

S4 – Tunnel
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All of your sessions will be there to enjoy again and again.
Thank you for attention and have a nice BIM