TD&T TanDuc ITS
A member of TD&T Group

Let's Reach For Excellence!

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AUTODESK REVIT

REVIT ESSENTIAL

Duration: 24 hours (12 sessions)

AUTODESK Microsoft SOLIDWORKS aws partner network Training Partner psi PEARSON VUE-Authorized Test Center KRYTERION GLOBAL TESTING SOLUTIONS

COURSE OUTLINE

1. Revit hierarchy + environment + starting a project

- Introducing Building Information Modeling (BIM)
- Understanding Revit element hierarchy
- Understanding file formats and installation
- Getting Comfortable with the Revit Environment
- Starting a Project - Setting up structural views
- Linking/Importing Autocad dwg files

2. Basic modeling - datum and columns

- Adding Grids, levels and Referenes plans
- Coordination system and Orientation
- Adding columns (Offset/Schedule/Slanted/Steel)
- Using Snaps + Temporary dimension

3. Basic modeling: walls and foundation

- Using Modify tools
- Basic modeling – Walls
- Basic modeling – Using Constraint
- Basic modeling – Foundations

4. Basic modeling: framing

- Adding beams
- Adding beam systems
- Copy paste aligned
- Tagging framing
- Configuring beam joins

5. Sructural floors and slabs

- Creating a slab on grade
- Adding a concrete floor with steel decking
- Cantilevering slab edges
- Using the shape editing tools
- Adding openings

6. Reinforcing

- Parallel to face
- Perpendicular to face
- Sketching rebar
- Adding area reinforcing
- View settings
- Adding a rebar coupling
- Adding free-form rebar

7. Stairs, Ramps and Slopes

- Adding stairs
- Adding railings
- Adding extensions to railings
- Creating ramps 7.5 Sloping slabs

8. The basic families

- Understanding component families
- Creating a new family from a template
- Using reference planes, parameters, and constraints
- Adding solid geometry
- Cutting holes and using void geometry
- Adding blends
- Completing the family

9. Strutural families

- Profile families
- Understanding basic formulas
- Creating foundation families
- Creating pre-cast slab families

10. Detailing, annotating & schedule

- Adding text
- Adding dimensions
- Adding symbols
- Adding legend views
- Adding detail components

- Adding filled and masking regions
- Understanding tags
- Adding schedule views
- Modifying schedule views
- Creating a key schedule

11. Visibility/graphic controls

- Using object styles
- Working with visibility and graphic overrides
- Using view templates
- Hiding and isolating objects in a model
- Understanding view extents and crop regions
- Understanding view range
- Displaying objects above and below in plan views
- Using the Linework tool and Depth Cueing
- Using cutaway views

12. Project management & documentation

- Phasing
- Keynoting
- Revisions
- Working with sheets
- Working with placeholder sheets
- Aligning views with a guide grid
- Exporting to AutoCAD
- Plotting and creating a PDF