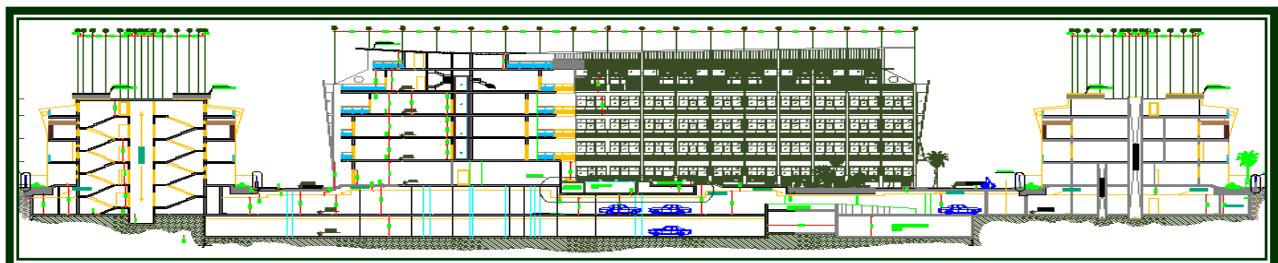


Training Programme on 5D Virtual Construction



For Architects and Civil Engineers
Programme duration 40 hours

About Us

Adroitec has been in operation for nearly two decades, promoted by first generation entrepreneurs who are from IIT & FMS, each having work experience of more than thirty years.

The management team has put together, more than 100 man years of diverse work experience in private & public sectors, functioning in the areas of information technology, engineering, project management, corporate planning, marketing, finance and general management.

Its Architectural, Engineering & Construction (AEC) Division offers Virtual Construction Services (5D solution) to building & construction industry worldwide based on BIM solution services for 3D, 4D & 5D

Mamzar Tower, Dubai



Mystica Residential Tower, Dubai



Unique Features & Benefits of Virtual Construction:

- 3D Visualization & Parametric Library objects
- Engineering Coordination and Collision Detection
- Sun Shadow Studies and Walk-through
- Design Validation and Option Analysis
- Auto-generated fully consistent Plans, Sections & Elevations and Coordinated Drawings
- Model based BOQ & 'Take off' Sheets
- Model linked Project Scheduling

Angelica Residential Villa's Dubai



- Project Monitoring and Control using 'flow line diagram'
- Cash flow and Earned Value Analysis
- 'As-built' Drawings
- Allows 'Design to Build' & 'Build to Design'

Value Addition:

- Detects discrepancies & helps in solving them in design phase rather than during construction
- Links construction schedule with 3D Model
- Green Building Analysis and Energy Efficient Building Analysis
- Better coordination amongst all project implementation participants
- Saves construction cost up to 5% and time up to 20%
- Eliminates extra items, disputes & litigations with vendors/ contractors/ consultants

🌐 Part A-(Twenty Four hours)

Theoretical and Practical BIM Software training on Vico Constructor

- Acquaintance with Constructor Interface
- Selection Tools
- Design Tools - Part 1
- Design Tools - Part 2
- MEP Tools
- Project Documentation Tools
- Assessment Exercise



Arabian Acre, Dubai

🌐 Part B-(Eight hours)

Theoretical and Practical BIM Software training on Vico Estimator

- Acquaintance with Estimator Interface
- Creating Recipes and Linkages
- Extracting and Exporting Quantities
- Creating Bill of Quantities
- Assessment Exercise



Mavij Homes, Canada

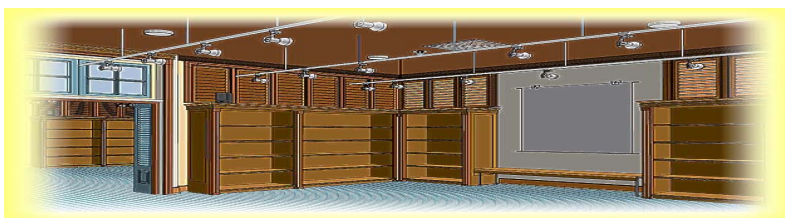
🌐 Part C-(Eight hours)

Theoretical and Practical BIM Software training on Vico Control

- Acquaintance with Control Interface
- Extracting and Exporting data
- Reports
- PERT and Risk Analysis
- Developing 5D simulation of the construction project
- Assessment Exercise



Sarco, Administrative Building Dubai



A & F Retail Store, USA



Magnolia Apartments, Dubai



Pre Requisite:

- Proficiency in AutoCAD
- Computer hardware i.e. requisite number of PCs/ Laptops, duly networked

Required software would be arranged by Adroitec.

About Our Trainers:

Our Trainers, who are also the Project Managers, have handled more than twenty construction projects each for domestic and foreign Clients.

Contact Personnel:

Programme Director: Mr. Suresh K. Gupta

Programme Manager: Mr. Jitin Gandotra

Programme Coordinator: Ms. Mukesh Kumari

Email: suresh.gupta@adroitecinfo.com

Contact Information:

Adroitec Information Systems Pvt Ltd

D-194, Okhla Industrial Estate Phase-1,

New Delhi -110 020, India

Contact No. +91-11- 41609231-33, 47666444

Website address: www.adroitecinfo.com

Marketing Associate:

Mansycom Consultants Pvt Ltd, New Delhi, India

Website: www.mansycom.com

Email: suresh@mansycom.com



Training Schedule

Day One - Vico Constructor

- | | |
|----------------------|---|
| 9:30 am -- 10:00 am | • Introduction to Building Information modeling |
| 10:00 am -- 11:00 am | • Acquaintance with Constructor Interface and Tool Palettes |
| 11:00 am -- 11:15 am | -----Tea Break----- |
| 11:15 am -- 13:00 pm | • Selection Tools-Arrow tool Marquee Tool |
| | • Design Tools -Wall Tool, Slab Tool, Column Tool, Beam Tool + Hands on Session |
| 13:00 pm -- 13:30 pm | -----Lunch Break----- |
| 13:30 pm -- 15:30 pm | • Design Tools-Roof Tool, Concept of Libraries + Hands on Session |
| 15:30 pm -- 15:45 pm | -----Tea Break----- |
| 15:45 pm -- 17:00 pm | • Door and Window Tool, Object Tool + Hands on Session |
| 17:00 pm -- 18:00 pm | • Question Hour |



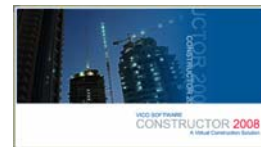
Day Two - Vico Constructor

- | | |
|----------------------|---|
| 9:30 am -- 10:00 am | • Revision and Review |
| 10:00 am -- 11:00 am | • Complex Profiles + Hands on Session |
| 11:00 am -- 11:15 am | -----Tea Break----- |
| 11:15 am -- 13:00 pm | • Design Tools- Mesh Tool, Complex roof from Mesh +Hands On Session |
| 13:00 pm -- 13:30 pm | -----Lunch Break----- |
| 13:30 pm -- 15:30 pm | • Design Tools- Stair Tool, Stair maker Tool + Hands on Session |
| 15:30 pm -- 15:45 pm | -----Tea Break----- |
| 15:45 pm -- 16:15 pm | • Documentation Tools-Line Tool, Arc Tool, Circle Tool, Spline Tool, Polyline Tool, Text Tool, Dimension Tool, Section and Elevation Tool |
| 16:15 pm -- 17:00 pm | • Process and Methods of Quality Assurance Check and Usage of Interactive Schedules |
| 17:00 pm -- 18:00 pm | • Question Hour |



Day Three - Vico Constructor

- | | |
|----------------------|---|
| 9:30 am -- 10:00 am | • Revision and Review |
| 10:00 am -- 11:00 am | • Acquaintance with MEP Tool Palettes and Menus |
| 11:00 am -- 11:15 am | -----Tea Break----- |
| 11:15 am -- 13:00 pm | • MEP Tools-HVAC Tool- Inline, End type and Equipment tool for HVAC Ductwork + Hands On Session |



Training Schedule

Day Three - Vico Constructor

13:00 pm -- 13:30 pm

13:30 pm -- 15:30 pm

15:30 pm -- 15:45 pm

15:45 pm -- 17:00 pm

17:00 pm -- 18:00 pm

-----Lunch Break-----

- MEP Tools- Pipe Tool- Inline, End type and Equipment tool + Hands On Session

-----Tea Break-----

- MEP Tool- Electrical Conduits and Cable Tray Tools + Hands on Session
- Question Hour



Day Four - Vico Estimator

9:30 am -- 10:00 am

10:00 am -- 11:00 am

11:00 am -- 11:15 am

11:15 am -- 13:00 pm

- Revision and Review
- Acquaintance with Estimator Interface

-----Tea Break-----

- Concept of Recipes, Methods ,Resources and Location, Creating new recipes and modifying methods, resources and recipes

13:00 pm -- 13:30 pm

13:30 pm -- 14:30 pm

14:30 pm -- 15:30 pm

-----Lunch Break-----

- Linkage of Recipes with building model
- Extracting and Exporting Quantities from Constructor model to Estimator

15:30 pm -- 15:45 pm

15:45 pm -- 16:15 pm

16:15 pm -- 17:00 pm

17:00 pm -- 18:00 pm

-----Tea Break-----

- Formatting and Sorting Quantities
- Creating Tender Documents and bid packages
- Question Hour



Day Five - Vico Control

9:30 am -- 10:00 am

10:00 am -- 11:00 am

11:00 am -- 11:15 am

11:15 am -- 13:00 pm

13:00 pm -- 13:30 pm

13:30 pm -- 14:30 pm

14:30 pm -- 15:30 pm

15:30 pm -- 15:45 pm

15:45 pm -- 17:00 pm

17:00 pm -- 18:00 pm

- Revision and Review
- Introduction to Project Management

-----Tea Break-----

- Creating Project Schedule

-----Lunch Break-----

- Adding Quantities from Estimator to Control
- Critical Path Method and PERT Method

-----Tea Break-----

- Developing 5D model and Simulation
- Question Hour

