

GRAPHISOFT Learn™ BIM CLASSES

SCHEDULING TRAINING

LEARN HOW TO PREPARE YOUR BIM
MODEL FOR QUANTITY TAKE-OFF!

WHAT IS BIM-BASED SCHEDULING?

BIM model-based quantity takeoff is for accurate determination of surface areas, element volumes, element counts with belonging metadata. Information incorporated within BIM models can be extracted by following certain rules and guidelines. These lists can be used by cost estimators for construction planning.

TRAINING OBJECTIVES

Understand the importance of accurate modeling alongside with the structure and behavior of Archicad schedules. Learn the basics of quantity take-off and quality control methods from Archicad BIM models. Advanced property management and use of external applications are not covered in this training.

WHO SHOULD ATTEND?

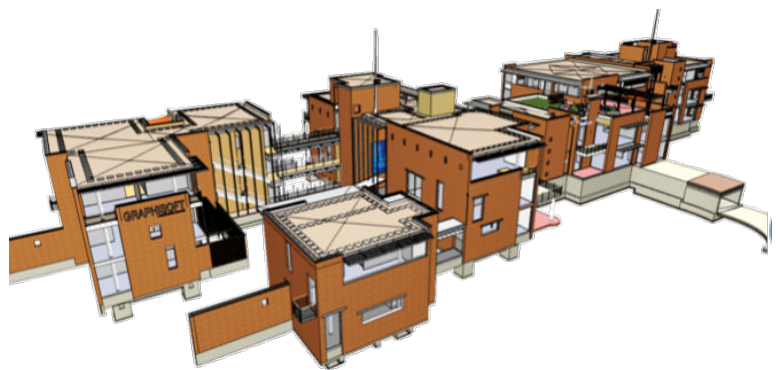
Archicad users with basic to intermediate knowledge

PREREQUISITES

There are no prerequisites, however this training is recommended for users who completed the [Archicad online test](#) with a minimum score of 40%

DURATION

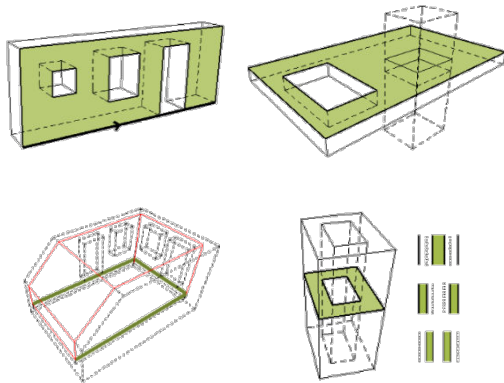
1 day (6 hours)



Participants are guided through the basic concepts and rules of thumb for preparing the 3D BIM model for quantity take-off. Among other topics they will learn about the following topics through a set of hands-on exercises and useful tips and tricks:

- + surface and volume extraction from structures
- + door and window list
- + object inventory creation
- + zone listing
- + schedule exporting
- + topics with the use of different hands-on exercises and useful tricks and tips.

- > General
- > Building Material
- > Components
- > Window/Door
- > Object/Lamp
- ✓ Wall
 - Air Skin Thickness
 - Analytic Surface Area of Openings on the Inside Face
 - Analytic Surface Area of Openings on the Outside Face
 - Analytic Volume of the Openings
 - Area of the Wall
 - Combined Width of Doors
 - Combined Width of Windows
 - Conditional Length on the Inside Face
 - Conditional Length on the Outside Face
 - Conditional Surface Area on the Inside Face
 - Conditional Surface Area on the Outside Face
 - Conditional Wall Skin Volume on the Inside Face
 - Conditional Wall Skin Volume on the Outside Face
 - Edge Surface
 - End Thickness of the Wall



SOFTWARE REQUIREMENTS

Participant must have access to a computer with the latest Archicad version installed. Valid commercial, trial or educational license of Archicad is required.

COURSE OUTLINE

Archicad SCHEDULING

CONCEPT OVERVIEW

- + Work environment
- + Attribute management
- + Model Level of Detail

MODELING CONCEPTS

- + Basic modeling techniques and model preparation
- + Element classification and identification methods

SCHEDULING EXERCISES

- + Archicad Scheduling parameters and scheme settings
- + Basics of Door and Window lists
- + Exporting model quantities and tables
- + Introduction to Model Quality Control
- + Bottlenecks and solutions
- + Modeling and scheduling tricks and tips

Wall Type	Element ID	2D Plan Preview	Height [m]	Thickness [m]	Area [m ²]	Net Volume [m ³]	Perimeter...	Elemen...
100 Block Insulated Cavity Plas...	SW - 033		3.000	0.287	9.23	27.75	65.10	Wall
100 Block Insulated Cavity Plas...	SW - 034		3.000	0.287	6.05	18.15	42.97	Wall
100 Block Insulated Cavity Plas...	SW - 035		3.000	0.287	9.23	27.68	65.10	Wall
100 Block Insulated Cavity Plas...	SW - 036		3.000	0.287	6.05	17.93	42.97	Wall
100 Block Insulated Cavity Plas...	SW - 037		3.000	0.287	7.16	21.54	50.68	Wall
100 Block Insulated Cavity Plas...	SW - 038		3.000	0.287	4.18	12.54	29.94	Wall
100 Block Insulated Cavity Plas...	SW - 039		3.000	0.287	7.16	21.47	50.68	Wall
100 Block Insulated Cavity Plas...	SW - 040		3.000	0.287	4.18	12.47	29.94	Wall
140 Block Insulated Cavity	SW - 021		3.000	0.315	6.40	19.29	41.50	Wall
140 Block Insulated Cavity	SW - 022		3.000	0.315	6.12	18.36	39.76	Wall
140 Block Insulated Cavity	SW - 023		3.000	0.315	6.40	19.19	41.50	Wall
140 Block Insulated Cavity	SW - 024		3.000	0.315	6.12	18.27	39.76	Wall
140 Block Insulated Cavity	SW - 025		3.000	0.315	6.75	20.34	43.74	Wall
140 Block Insulated Cavity	SW - 026		3.000	0.315	0.95	2.85	6.93	Wall
140 Block Insulated Cavity	SW - 027		3.000	0.315	6.75	20.24	43.74	Wall
140 Block Insulated Cavity	SW - 028		3.000	0.315	0.95	2.76	6.93	Wall
140 Block Insulated Cavity	SW - 029		3.000	0.315	7.14	21.52	46.22	Wall
140 Block Insulated Cavity	SW - 030		3.000	0.315	1.73	5.20	11.90	Wall
140 Block Insulated Cavity	SW - 031		3.000	0.315	7.14	21.42	46.22	Wall
140 Block Insulated Cavity	SW - 032		3.000	0.315	1.73	5.11	11.90	Wall
Basement Wall	SW - 005		2.700	0.292	3.11	8.49	22.13	Wall
Basement Wall	SW - 006		2.700	0.292	3.15	8.41	22.40	Wall
Basement Wall	SW - 007		2.700	0.292	3.11	7.85	22.13	Wall
Basement Wall	SW - 008		2.700	0.292	3.15	7.77	22.40	Wall
Brick Double Plastered	SW - 009		3.000	0.125	0.11	0.38	2.19	Wall
Brick Double Plastered	SW - 010		3.000	0.125	0.43	1.28	7.16	Wall
Brick Double Plastered	SW - 011		3.000	0.125	0.11	0.34	2.19	Wall
Brick Double Plastered	SW - 012		3.000	0.125	0.43	1.24	7.16	Wall
Double 50 Block Cavity Plastered	SW - 013		3.000	0.274	18.28	53.97	134.23	Wall
Double 50 Block Cavity Plastered	SW - 014		3.000	0.274	2.29	6.86	17.46	Wall
Double 50 Block Cavity Plastered	SW - 015		3.000	0.274	18.28	54.69	134.23	Wall
Double 50 Block Cavity Plastered	SW - 016		3.000	0.274	2.29	6.79	17.46	Wall
Generic Wall/Shell	SW - 017		3.000	0.300	5.35	16.24	36.51	Wall
Generic Wall/Shell	SW - 018		3.000	0.300	7.59	22.76	51.43	Wall
Generic Wall/Shell	SW - 019		3.000	0.300	5.35	16.06	36.51	Wall
Generic Wall/Shell	SW - 020		3.000	0.300	7.59	22.57	51.43	Wall

Element ID	IES-02 Window Schedule			
	WD - 001	WD - 002	WD - 003	WD - 004
Dynamic ID by Classification	Window - 001	Window - 002	Window - 003	Window - 004
Opening Name	Window 22	Inside-Outside Historic Window 22	2-Sash Sliding Window 22	Double-Hung Window 22
Quantity	1	1	1	2
From Zone	Living room	Living room	Living room	Living room
W x H Size	0.900x1.500	0.900x1.800	1.500x1.500	0.900x1.500
Orientation	L	L	L	L
Sill height	1.000	1.000	1.000	1.000
Head height	2.500	2.800	2.500	2.500
View from Side Opposite to Opening Side				
Fire Resistance Rating	45 minutes	45 minutes	30 minutes	1 hour
Thermal Transmittance	0.85	0.77	1.2	1.3