

AGC of Wisconsin 2011-2012 Building Information Modeling (BIM)

Your Resource for Successful BIM Implementation

AGC's BIM Education is comprised of four units. The program is designed to give participants a broad understanding and essential knowledge on BIM terminology, technology, concepts, functionality, and legal and insurance issues.

**Unit 1: BIM 101: An Introduction to Building Information Modeling
(September 21, 2011 or November 9, 2011 or February 22, 2012)**

**Unit 2: BIM Technology
(September 22-23, 2011 or November 10-11, 2011 or
February 23-24, 2012)**

**Unit 3: Contract Negotiation & Risk Allocation
(October 17, 2011 or January 12, 2012 or March 22, 2012)**

**Unit 4: BIM Process Adoption and Integration
(October 18, 2011 or January 13, 2012 or March 23, 2012)**

Register for multiple units and save!

For more information
www.agcwi.org/events_calendar
1-800-362-8022

BIM 101 courses are offered in Madison, Fox Cities and Wisconsin Dells in 2011-2012! Pick the combination that works best for you!

September & October - Madison

November & January - Fox Cities

February & March - Wisconsin Dells

UNIT 1

BIM 101: AN INTRODUCTION TO BUILDING INFORMATION MODELING

September 21, 2011 or November 9, 2011 or February 22, 2012

BIM 101: An Introduction to Building Information Modeling

BIM 101 is designed specifically for construction professionals eager to learn the essential concepts of BIM. Those who will also benefit include building developers, owners, managers, supervisors, architects, engineers, and construction product manufacturers. Students in the architecture, engineering and construction industry will also greatly benefit from this training.

The full-day course will give participants a comprehensive overview of BIM, supported by case studies to help participants comprehend each session's learning objectives. BIM 101 will introduce important concepts that will be necessary for future BIM courses.

Session 1—What Is BIM?

- Define common BIM terminology and BIM-related components
- Recognize differences between 2D CAD and 3D BIM
- Describe the evolution of BIM (past, present and future)
- Discuss how BIM is used in collaboration
- Discuss the benefits of BIM to all parties involved

Session 2—BIM Visualization Uses and Spatial Coordination

- Recognize the basics of the modeling process and model management protocol
- Recognize BIM uses in visualization, value analysis and scope clarification
- Explain the advantages of BIM in regards to spatial coordination

Session 3—BIM Scheduling, Estimating and Facility Management

- Recognize the advantages of BIM in scheduling and estimating
- Recognize how companies are using BIM in facility management
- Explain the benefits to and lessons learned from companies using BIM

Session 4—Getting Started with BIM

- Identify challenges for getting started with BIM
- Demonstrate a basic understanding of BIM tools
- Develop a BIM Action Plan
- Use BIM resources provided to further understanding of more advanced BIM concepts and practice

Instructor: David Webster
Application Engineer - MasterGraphics

David is an instructor and consultant with MasterGraphics, specializing in the A/E/C industry. David has 25 years of experience as an architectural designer and project manager and studied Architectural Engineering Technology at Wentworth Institute of Technology in Boston, MA

UNIT 2

BIM TECHNOLOGY

September 22-23, 2011 or November 10-11, 2011 or February 23-24, 2012

BIM is leading the way to a fundamental paradigm shift for the entire AEC industry. The ultimate goals are still the same-successful projects completed on time, on budget and with no claims. To consistently achieve these goals, it is necessary to work in a collaborative environment. The tools and processes of BIM offer just such a collaborative approach.

BIM Technology presents a solid process for selecting BIM tools. The course explores the major applications and classes of tools across project phases, how BIM processes for QTO, shop drawing and fabrication, and construction scheduling can improve projects, and the significant impact models have for improving estimating, scheduling, and coordinating.

The goal of the BIM Technology course is to help participants become BIM champions within their organizations. The BIM Technology course is designed as a highly participatory, team-oriented event that balances group discussion and team assignments in an instructor-led format.

BIM Technology Learning Goals

Following this course, participants will understand and appreciate the:

- Phases of a BIM project
- Classes of BIM technology
- Specific BIM applications
- Need for planning/organizing to use BIM tools
- Requirement to embed tools into process
- Process for selecting relevant BIM tools
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- Need for planning/organizing to use BIM tools
- Requirement to embed tools into process
- Process for selecting relevant BIM tools

Instructor: Daniel Klancnik
Virtual Construction Manager - The Walsh Group

Dan is responsible for implementing and directing The Walsh Group's firm-wide strategy for Building Information Modeling (BIM) and Virtual Construction. His duties include using BIM and Virtual Design and Construction (VDC) technology and processes to improve construction by identifying and solving problems, streamlining communication, and reducing waste.

UNIT 3

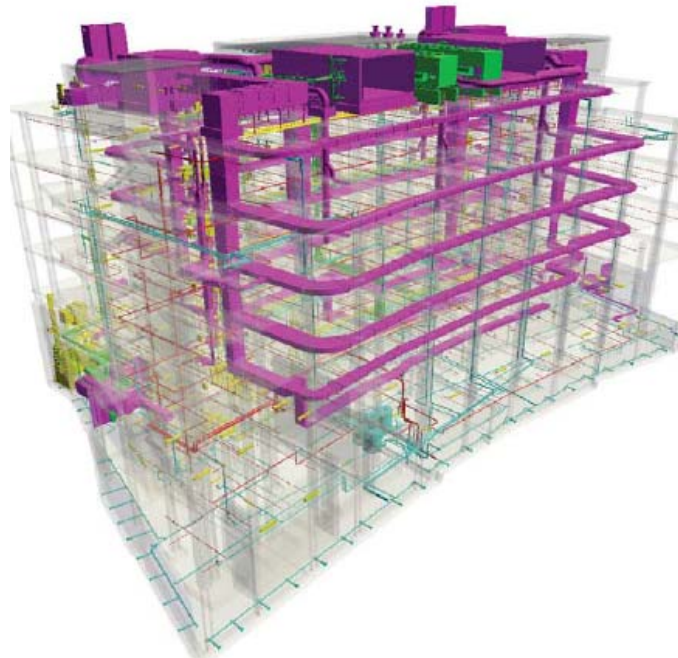
CONTRACT NEGOTIATIONS & RISK ALLOCATION

October 17, 2011 or January 12, 2012 or March 22, 2012

This course will provide an overview of the contract and risk management issues that are important to consider when utilizing BIM on a project.

Following successful completion of this course, participants will be able to:

- Explain key BIM terms, roles, and related risk allocation concepts
- Discuss indemnity and standards of care related to model contributions and use
- Evaluate BIM Execution Plan elements and negotiate contract terms related to them
- Identify intellectual property rights and legal issues related to model usage
- Recognize limitations of existing insurance and bond products as compared to evolving BIM liability coverage
- Devise fair risk allocation and management on BIM projects
- Use BIM contract negotiation to establish pro-active collaborative BIM



Instructor: Kim Hurtado
Managing Shareholder - Hurtado, S.C., Counselors at Law

Kim's practice is focused in the areas of construction contracting, real property development and public bond issuance. She consults on a wide range of electronic data issues, including contract development for virtual modeling (BIM) and electronic communications protocols (ECP), as well as providing advice on integrated project delivery (IPD) and sustainable/green (LEED®) projects.

UNIT 4

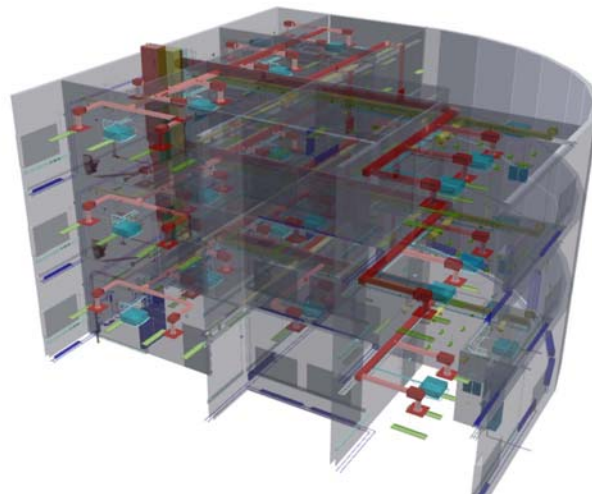
BIM PROCESS, ADOPTION & INTEGRATION

October 18, 2011 or January 13, 2012 or March 23, 2012

Provides a practical look at the steps necessary to implement BIM on projects and within construction firms. Participants will be introduced to different theories and concepts firms have used in the past to adopt and implement BIM.

Following successful completion of this course, participants will be able to:

- Evaluate and select process options for a specific BIM project
- Describe the roles and responsibilities of participants in the BIM process
- Create a BIM process diagram for a project
- Identify consistent factors influencing BIM project ROI
- Communicate the BIM process to management, colleagues and project stake holders
- Outline a process for BIM adoption on the project level
- Identify factors influencing BIM ROI on a company level
- Outline a process for BIM adoption on the company level
- Use BIM contract negotiation to establish pro-active collaborative BIM



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REGISTRATION FORM

SESSION TIME: All sessions will be held from 8 a.m. until 5 p.m. with a 1 hour lunch (provided)

MEETING LOCATIONS:

QUALITY INN & SUITES, 2969 CAHILL MAIN, MADISON

Unit 1 (Code BIM1-MSN) 9/21/11

Unit 2 (Code BIM2-MSN) 9/22-23/11

Unit 3 (Code BIM3-MSN) 10/17/11

Unit 4 (Code BIM4-MSN) 10/18/11

LIBERTY HALL CONFERENCE CENTER, 800 EISENHOWER DR., KIMBERLY

Unit 1 (Code BIM1-FV) 11/9/11

Unit 2 (Code BIM2-FV) 11/10-11/11

Unit 3 (Code BIM3-FV) 1/12/12

Unit 4 (Code BIM4-FV) 1/13/12

KALAHARI RESORT & CONVENTION CTR., 1305 KALAHARI DR., WISCONSIN DELLS

Unit 1 (Code BIM1-WD) 2/22/12

Unit 2 (Code BIM2-WD) 2/23-24/12

Unit 3 (Code BIM3-WD) 3/22/12

Unit 4 (Code BIM4-WD) 3/23/12

FEE: Register for multiple units and **SAVE!** Circle option below

*** Must register for ALL units at one time to qualify for the reduced rates ***

Cost per unit if you register for	1	2	3-4 units
AGC Members:	\$275	\$250	\$200
Partners:	\$415	\$375	\$300
Non-Members:	\$550	\$500	\$400

Seminar Code: _____

Company Name: _____

Attendee Name: _____

Address: _____

Phone: _____

Fax: _____

Attendee E-Mail: _____

Payment Information

Check made payable to AGC of Wisconsin

Bill Me (AGC Members Only)

Visa/Mastercard

Account Number: _____ Exp Date: _____

Name as shown on card: _____

Signature: _____

Mail to: 4814 E Broadway ~ Madison, WI 53715 or fax registration to 608-221-4446

Questions? Contact the AGC of Wisconsin at 1-800-362-8022