

# BIM 101: AN INTRODUCTION TO BUILDING INFORMATION MODELING

A MBI & AGC of America Construction Learning Tool

March 9, 2010

8:00 am - 5:00 pm

Marina Inn

510 E 5th Street

South Sioux City, Nebraska 68776

**BIM 101** is designed specifically for construction professionals eager to learn the essential concepts of BIM. Those also benefiting include building developers, owners, managers, supervisors, architects, engineers, and construction product manufacturers. Students in the architecture, engineering and construction (AEC) 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.

## BIM 101 Session

### Objective 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

### Objective 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

### Objective 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

### Objective 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

# The Complete BIM Education Program

The BIM Education Program is designed as a progressive program with an increasing level of difficulty within the units. It is comprised of six units, which together, are designed to give participants a broad understanding and essential knowledge of the new processes required of BIM, a basic grasp of the technology, as well as an overview of the legal and insurance issues relevant to BIM. Each unit will be registered and paid for separately.

## Unit 1

**BIM 101** | This 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.

## Unit 2

**BIM Technology** | A broad understanding of available BIM tools and hands-on training with some of the leading BIM software solutions. Will also outline ways to get various compatible software tools to work together on a project. -- *Coming Winter 2009/10*

## Unit 3

**BIM Legal Issues and Risk Management** | Uses the ConsensusDOCS BIM Legal Addendum as a foundation for training and will provide an overview of legal and insurance issues that are important to utilizing BIM on a project.

-- *Coming Spring 2010*

## Unit 4

**BIM Case Studies and Lessons Learned** | Based on the Harvard Case Studies' approach, participants will examine the kinds of decisions and dilemmas BIM managers confront on a daily basis. Each case will illustrate examples of how leading companies have been using BIM and will demonstrate tools and techniques and illustrate the concepts that are necessary for a complete understanding of BIM. -- *Date to be announced.*

## Unit 5

**BIM Process and Integration** | Achieving the full benefits of BIM requires a reformation of traditional workflow processes and closer collaboration between the contractor and designer. This course will teach participants how to effectively collaborate with all project stakeholders in order to achieve better and more efficient projects. -- *Date to be announced.*

## Unit 6

**Advanced BIM** | Participants will focus on key BIM-related changes in the industry including: updates on the latest technological advances, new case studies, legal and insurance issues, and future trends. -- *Date to be announced.*

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### UNIT 1 - BIM 101: An Introduction to Building Information Modeling - Sioux City Registration

Name(s): \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

**Fee:** Unit One registration fee includes seminar, continental breakfast, lunch and course materials.

\_\_\_ \$300.00 per person (MBI Members)

\_\_\_ \$420.00 per person (Construction Update Plan Room Members & Non-Members)

**Please indicate if you would like to apply for the credit hours:** \_\_\_ YES \_\_\_ NO

**Payment Method:** \_\_\_ Check enclosed (made payable to Master Builders of Iowa) \_\_\_ Credit card \_\_\_ Please invoice

**Credit card type:** \_\_\_ Master Card \_\_\_ Visa \_\_\_ Discover **Card #** \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ **Expiration Date** \_\_ / \_\_

**Name on Card:** \_\_\_\_\_

**Please send registration to Master Builders of Iowa**

Attn: Laurie Delmott at P.O. Box 695, Des Moines, IA 50306

Or fax to: (515) 288-2617

For more information, contact Monica Worheide at

515-288-8904 / 800-362-2578 or [mworheide@mbionline.com](mailto:mworheide@mbionline.com).

#### Cancellation Policy

If you must cancel your registration, a full refund will be granted to requests received in writing by February 26<sup>th</sup>. A refund, less \$75 for each registrant, will be granted to written requests received from Feb. 27<sup>th</sup>- Mar. 3<sup>rd</sup>.

No refunds will be granted after Mar. 3<sup>rd</sup>.