

Blueprint Reading for Commercial Construction - Registration  
(Please Copy for Additional Registrants)

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Email: \_\_\_\_\_

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

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

City, St. Zip: \_\_\_\_\_

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

**Please Check Which Sessions You Would Like to Attend:**

**West Des Moines:**

**Iowa City:**

\_\_\_ May 27, 2016 - Session 1

\_\_\_ June 9, 2016 - Session 1

\_\_\_ May 27, 2016 - Lunch

\_\_\_ June 9, 2016 - Lunch

\_\_\_ May 27, 2016 - Session 2

\_\_\_ June 9, 2016 - Session 2

\_\_\_ June 3, 2016 - Session 3

\_\_\_ June 10, 2016 - Session 3

**Fee: A la Carte (Per Session):**

\$125.00 per session - MBI Members

\$175.00 per session - Construction Update Network  
Subscribers and Non-Members

**Lunch - \$25.00**

**Full Series (All Three Sessions & includes lunch):**

\$350.00 for MBI Members

\$500.00 for Construction Update Network  
Subscribers and Non-Members

**Payment Method (payable to Master Builders of Iowa):**

\_\_\_ Check Enclosed \_\_\_ Credit Card \_\_\_ Please Invoice

**Credit Card Type:**

\_\_\_ MC \_\_\_ Visa \_\_\_ Discover \_\_\_ AmEx

Card #

Expiration Date:   /

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

CC Address \_\_\_\_\_

Amount Enclosed \$ \_\_\_\_\_

**Please send registration and payment to**

Master Builders of Iowa

Attn: Nichole Fry

PO Box 695 | Des Moines, IA 50306

Fax: (515) 288-2617 | Email: [nfry@mbionline.com](mailto:nfry@mbionline.com)

**Questions?** Contact Tom Fulcher at  
(515) 657-4395 or [tfulcher@mbionline.com](mailto:tfulcher@mbionline.com).



Since 1912

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**NEW OFFERING**

# BLUEPRINT READING FOR COMMERCIAL CONSTRUCTION

## A THREE PART SERIES



### WEST DES MOINES

**MAY 27, 2016**

Session 1 - 8:00 am - 12:00 pm

Session 2 - 1:00 pm - 5:00 pm

**JUNE 3, 2016**

Session 3 - 8:00 am - 12:00 pm

### IOWA CITY

**JUNE 9, 2016**

Session 1 - 8:00 am - 12:00 pm

Session 2 - 1:00 pm - 5:00 pm

**JUNE 10, 2016**

Session 3 - 8:00 am - 12:00 pm

# BLUEPRINT READING FOR COMMERCIAL CONSTRUCTION

## A THREE PART SERIES

Construction drawings can be difficult to understand and mistakes can be costly. Being able to read and understand construction drawings is a fundamental skill for anyone involved in the construction industry. In this series, participants will gain the skills necessary to read and understand typical construction documents - blueprints and specifications.

### SESSION #1: GENERAL CONSTRUCTION / CIVIL / PROJECT DELIVERY METHODS

This session will provide the participant with an introduction to the life cycle of a construction project from project conception, through design, construction, and project closeout. Participants will learn about project delivery methods, such as the traditional Design-Bid-Build, as well as alternative delivery methods, including Design-Build and Construction Management. Roles of the various parties in each delivery method will be discussed: owner, architect, engineer, contractor, and subcontractor.

Participants will engage in class exercises introducing them to contract documents, including construction plans and specification reading. Civil Plan reading topics to be discussed include the following:

- Standard symbols, plan organization, code analysis plan
- Civil Engineering Benchmarks, elevations, notes, scales
- Site utilities, such as domestic water lines, storm sewer, and sanitary sewer
- Existing conditions and new work
- Grading and pollution prevention plan
- Landscaping plan



The Master Builder designation program will offer various credits for completion of these sessions. For more information on becoming a 'Master Builder', please visit MBI's website at [www.mbsonline.com/master-builder-designation](http://www.mbsonline.com/master-builder-designation)



ECOLOGICAL



PROJECT MANAGEMENT



### SESSION #2: ARCHITECTURAL / STRUCTURAL

This session will focus on the reading and use of architectural and structural plans and specifications. Architectural and structural plan reading topics to be discussed include the following:

- Standard symbols, plan organization, specification organization
- Use of standard architectural scales
- Architectural plan views, details, elevations, and sections
- Use of architectural schedules, notes, and symbols
- Structural foundation plans
- Plan reading for structural building systems, including precast concrete, structural steel, site cast concrete, and masonry



PROJECT MANAGEMENT

### SESSION #3: PLUMBING / MECHANICAL / ELECTRICAL

This session will focus on the reading and use of mechanical, electrical, and plumbing plans and specifications. Plan reading topics to be discussed include the following:

- Standard symbols, plan organization, specification organization
- Mechanical systems, equipment, ductwork, and schedules
- Plumbing systems, equipment, piping, and schedules
- Electrical systems, equipment, wiring, conduit, one-line diagrams, and schedules
- Electrical site plan
- Mechanical, plumbing, and electrical details



PROJECT MANAGEMENT



PRESENTED BY  
**BRAD PERKINS**  
CONSTRUCTION ENGINEERING  
IOWA STATE UNIVERSITY

Mr. Perkins graduated from the ISU Construction Engineering program in 1997. He has worked at Black & Veatch in Overland Park, Kansas, ACI Mechanical in Ames, Iowa, and KJWW Engineering in Des Moines, Iowa. In 2001, he passed the Iowa PE exam, and is a licensed professional mechanical engineer. Some of the larger projects that Brad has worked on include the Lungmen Nuclear power plant (Taiwan), Valley High School remodel (Des Moines), State of Iowa Laboratory (Ankeny), and Allied Insurance Building (Des Moines).

## OFFERED IN TWO LOCATIONS

### WEST DES MOINES

**MAY 27, 2016**

Session 1 - 8:00 am - 12:00 pm

Session 2 - 1:00 pm - 5:00 pm

**JUNE 3, 2016**

Session 3 - 8:00 am - 12:00 pm

#### Location:

Sheraton West Des Moines  
1800 50th Street  
West Des Moines, IA 50266

### IOWA CITY

**JUNE 9, 2016**

Session 1 - 8:00 am - 12:00 pm

Session 2 - 1:00 pm - 5:00 pm

**JUNE 10, 2016**

Session 3 - 8:00 am - 12:00 pm

#### Location:

Sheraton Iowa City  
210 S. Dubuque Street  
Iowa City, IA 52240