



Lean Construction
EDUCATION PROGRAM



AGC's Lean Construction Education Program

UNIT 6: LEAN DESIGN & PRE-CONSTRUCTION

UNIT 7: PROBLEM-SOLVING PRINCIPLES & TOOLS

PRESENTED BY BUILDERS EDUCATION & TRAINING FOUNDATION

Register today for Units 6 and/or 7 of the Lean Construction Education Program

Unit 6: May 20th 11:30 am – 4:00 pm • **Unit 7:** June 23rd 7:30 am – 3:00 pm

Seating is limited to 24 registrants per unit

Unit 6: Lean Design and Pre-Construction is a half-day, instructor-led course that explains the concepts of value-based management, lean in the design process, and relational contracting.

Unit 7: Problem-solving Principles and Tools is a six hour, instructor-led course that describes the Lean Problem Solving Process and illustrates how to use tools to solve problems in a lean manner.

These units are part of the **full seven-unit Lean Education Program** that teaches participants to:

- Distinguish between the varying definitions for design.
- Define value and commonly used methods to maximize it.
- Discuss waste and commonly used methods to minimize it.
- Differentiate between traditional project methods and lean design.
- Explain the various lean tools used in design and how to deploy them.

To develop the tools needed to build lean, the Associated General Contractors of America (AGC) developed the Lean Construction Education Program. Construction professionals at all experience levels learn the building blocks necessary to transform their projects and companies into a lean operating system. AGC's Lean Construction Education Program is a series of courses that progressively cover a range of topics essential to Lean Construction including variation in production; pull-in production; lean workstructuring; the Last Planner® System; lean design and pre-construction; and problem-solving principles and tools.

After successful completion of all seven units participants are eligible to sit for the Certificate of Management in Lean Construction credentialing examination. The Builders Education & Training Foundation is an approved testing center.

Mark O. Federle, PE, PhD, CPC, F. ASCE, CM-LEAN

Mark Federle is the Associate Dean for Academic Affairs & McShane Chair in Construction Engineering and Management at Marquette University. He is responsible for starting what became the country's 13th ABET-accredited Construction Engineering program. Previously he was Chief Information Officer for The Weitz Company in Des Moines for nine years. Prior to joining Weitz Co., Federle was the Professor-in-Charge of Construction Engineering at Iowa State University, where he taught for nine years. In 1998, Mark was recognized by the ISU engineering student council as the outstanding Construction Engineering Faculty Member. Mark's career began in the industry working as a foreman, superintendent, and project manager for general contractors in Indiana and Michigan. Mark earned his PhD and Masters in Construction Engineering and Management from the University of Michigan. Mark is a licensed Professional Engineer and a Certified Professional Constructor. Mark was awarded The Career Achievement Award by Rose-Hulman in 2005. He was recognized by AGC of America as Instructor of the Year in 2011. He is a Fellow of ASCE.

Unit 6: May 20, 11:30 am – 4:00 pm

Unit 7: June 23, 7:30 am - 3:00 pm

**Location: 1256 Estes Avenue
Elk Grove Village, IL**

Register today at www.bldrs.org

AGC of America
THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA

Quality People. Quality Projects.



BUILDERS EDUCATION & TRAINING FOUNDATION

LEAN EDUCATION UNITS 6 & 7 REGISTRATION FORM

You may register online at www.bldrs.org or submit this completed form:

Company/Organization: _____
Street Address: _____ Unit/Suite: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____ Email: _____

Registrant 1 Name: _____ Title: _____
Email: _____

- Unit 6: May 20, 11:30 a.m. – 4:00 p.m. \$275 BA/LCI Member \$450 Non-Member
 Unit 7: June 23, 7:30 a.m. – 3:00 p.m. \$550 BA/LCI Member \$900 Non-Member

Registrant 2 Name: _____ Title: _____
Email: _____

- Unit 6: May 20, 11:30 a.m. – 4:00 p.m. \$275 BA/LCI Member \$450 Non-Member
 Unit 7: June 23, 7:30 a.m. – 3:00 p.m. \$550 BA/LCI Member \$900 Non-Member

Registrant 3 Name: _____ Title: _____
Email: _____

- Unit 6: May 20, 11:30 a.m. – 4:00 p.m. \$275 BA/LCI Member \$450 Non-Member
 Unit 7: June 23, 7:30 a.m. – 3:00 p.m. \$550 BA/LCI Member \$900 Non-Member

Registrant 4 Name: _____ Title: _____
Email: _____

- Unit 6: May 20, 11:30 a.m. – 4:00 p.m. \$275 BA/LCI Member \$450 Non-Member
 Unit 7: June 23, 7:30 a.m. – 3:00 p.m. \$550 BA/LCI Member \$900 Non-Member

Payment Information:

Total Amount Due: \$ _____

Check Enclosed (please make payable to the *Builders Education and Training Foundation*)

Credit Card: AmEx Discover MasterCard VISA

Card #: _____ Expiration Date: _____ Sec Code: _____