

# Lean Construction Reforming Project Management

*Announcing Our Latest Seminar—April 18-19, 2002*

## Introduction to Lean Construction

*A new way to manage designing and building*

April 18-19, 2002 • Key Bridge Marriott, Arlington, VA

### What is Lean Construction?

*Lean construction is a new way to manage work over the life of a project. It generates greater value more quickly at less cost.*

Lean Construction is a production management-based approach to project delivery; a new way to design and build capital facilities. The application of lean production management to manufacturing caused a revolution. Applied in project settings, particularly in construction, Lean is having a similar impact. Projects managed using lean concepts and techniques show reductions in both cost and duration that range up to 20%, along with improved quality. In addition managers report far less time responding to crisis, and improved ability to cope with change. Lean Construction is particularly useful on complex, uncertain, and quick projects. It challenges the belief that there must always be a tradeoff between time, cost, and quality.

When projects are managed with Lean Construction:

- The facility and its delivery process are designed together to better reveal and support customer purposes. Positive iteration within the process is supported and negative iteration reduced.
- Work is structured throughout the process to maximize value and to reduce waste at the project delivery level.
- Efforts to manage and improve performance are aimed at improving total project performance because improvement there is more important than reducing the cost or increasing the speed of any activity.
- “Control” is redefined from “monitoring results” to “making things happen.” The performance of the planning and control systems is measured and improved.
- Coordination is improved because the release of work from one specialist in design, supply, and assembly to the next is more reliable.

*Introduction to Lean Construction* presents the basic concepts and essential techniques that form the basis of a project based production system.

***The Lean Project Delivery System emphasizes the reliable and speedy delivery of value. It challenges the belief that there is always a trade between time, cost, and quality.***

## Who Should Attend?

This seminar is specifically designed for people who manage projects and are dissatisfied with the results achieved from current practice. While our focus is on construction, the system presented has worked in a variety of project settings that require designing and making unique products to order. These projects always include designing the “product” and its delivery process. Uncertainty and complexity are often high and time short.

We suggest that

- **Designers, contractors, and suppliers** considering the use of Lean principles send two representatives: a senior executive, such as the manager of operations; and a person very close to the work, perhaps a design leader, site superintendent or foreman, or fabrication shop manager.

- **Owners** will benefit by having facilities and/or procurement managers and their construction managers attend.
- **Suppliers** to the industry will discover new ways to improve their products and services.

After the seminar, attendees are interested in learning more and applying lean to their projects or they are not. Some decide to join LCI to support further research, including participation in implementation; others begin implementation on their own or with consulting support.

Note: No one has yet requested it, but we will immediately return the seminar fee to anyone who feels s/he has not received the expected value from the seminar.

## About the Lean Construction Institute

LCI was formed in August 1997. Now a nonprofit corporation, we are working to develop knowledge concerning the management of production in the design, engineering, supply, and construction of capital facilities, and to support implementation of the results. We conduct research with

contributors and our own staff, and support research in related universities.

For more information on The Lean Construction Institute, please visit our web site at: [www.leanconstruction.org](http://www.leanconstruction.org)

# Agenda

### *Introduction to Lean Construction*

#### **8am–4:30pm, Thursday, April 18**

Start up  
The Physics of Production - Work Flow

- Production System Control:  
The Last Planner System

The Physics of Production - Design

- Theater Stage Case

#### **8am–4:30pm, Friday, April 19**

Work Structuring/Production System Design

- Hollow Metal Doors Case
- Airplane Game
- Precast Concrete Case

Implementation and Organization

Wrap up

# Coming Events

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| <p><b>** Feb 28/Mar 1</b> FIATECH Workshop: Restructuring the project process, Houston, Tx</p> <p><b>* March 14/15</b> Research Meeting: Safety and Lean Construction, Chicago, Ill.</p> <p><b>* March 28/29</b> LCI Academic Council, East Lansing, MI</p> <p><b>April 18/19</b> Introduction to Lean Construction, Washington, DC</p> | <p><b>* May 16/17</b> Research Meeting: Design Management, Denver, CO</p> <p><b>July 31/Aug 1</b> Introduction to Lean Construction, Berkeley, CA</p> <p><b>Aug 2</b> 4th Annual Lean Construction Congress, Berkeley, CA</p> <p><b>** Open to FIATECH and LCI Members only</b><br/><b>* Lean Construction Institute members and guests only</b></p> |
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## Registration Information

### Introduction to Lean Construction:

\$1,200 (25% off for additional attendees; plus 10% off registrations received 30 days before seminars.)

\$400 - LCI Contributors, and their demand and supply chain affiliates; no discounts apply

Registration Payment by check, Visa or Mastercard.

Include Card Number, cardholder name and signature.

Send to: Lean Construction Institute  
Box 1003, Ketchum, ID 83340  
VOICE: 208/726-9989 • FAX: 707/248-1369  
www.leanconstruction.org

**Visit our web site and send us a note to receive announcements by email.**

**Location:** Key Ridge Marriott  
1401 Lee Highway  
Arlington, VA 22209

*Please contact the hotel for accommodations.  
(800) 228-9290 or (703) 524-6400*

*Ask for the Lean Construction Institute rate until March 27, 2002*

A continental breakfast is provided at 7:30.  
Sessions begin at 8:00 and close each day at 4:30.  
A Workbook, breaks and lunch are provided.

Cancellation: Accepted and fee refunded until 2 weeks before seminar, \$150 cancellation fee thereafter.

## Seminar Registration Form

Name \_\_\_\_\_

Email \_\_\_\_\_

Company \_\_\_\_\_

VISA/MC (circle one)

Address \_\_\_\_\_

Card # \_\_\_\_\_ Exp \_\_\_\_\_

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

Cardholder Name \_\_\_\_\_

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

Signature \_\_\_\_\_