



# LEAN CONSTRUCTION PROGRAM, Spring 2021 Courses, Units 1-7

Courses Begin on Tuesday, March 23 by Zoom Video Conferencing
Tuesdays & Thursdays, Noon to 3:00 pm

**Two Course Registration Options:** 

A) Register for Units 1-4 or B) Register for Units 1-7

# Unit 1: Variation in Production Systems

**Tuesday, March 23, Thursday, March 25, Tuesday, March 30, 2021** | **Noon-3:00 pm** Unit 1 helps participants recognize sources of variation on their own projects, examine variation's effect on operations, and mitigate the effects of variation in their every-day work.

#### Participants upon course completion will be able to:

- Define the different types of variation;
- Explain the concept of throughput and distinguish it from productivity;
- Discuss the role of variation in production operations;
- List sources of variation in construction settings;
- Explain and contrast variation mitigation techniques.

#### Unit 2: Pull in Production

**Tuesday, March 23, Thursday, March 25, Tuesday, March 30, 2021** | **Noon-3:00 pm** Unit 2 introduces the concept of pull as a means to reliable workflow.

#### Participants upon course completion will be able to:

- Compare batch-and-queue and continuous-flow production systems;
- Distinguish push systems from pull systems;
- Describe the impact of pull on production systems;

#### Unit 3: LEAN WORKSTRUCTURING

**Thursday, April 1, Tuesday, April 6, Thursday, April 8, 2021** | **Noon-3:00 pm** Unit 3 provides tools needed to apply Lean Workstructuring principles within the Last Planner® System.

#### Participants upon course completion will be able to:

- Apply the methods and tools utilized in pull planning;
- Describe the concept of Lean Workstructuring;
- Outline the desired products of Lean Workstructuring;
- Describe the characteristics and application of the Last Planner® System.

#### Unit 4: The Last Planner® Systems

Thursday, April 1, Tuesday, April 6, Thursday, April 8, 2021 | Noon-3:00 pm Unit 4 shows how to conduct make-ready and weekly work planning sessions.

#### Participants upon course completion will be able to:

- Apply the Last Planner® System on a project;
- Hold make-ready and weekly work planning sessions;
- Calculate, track and analyze percent plan complete for a project.





#### Unit 5: LEAN SUPPLY CHAIN & ASSEMBLY

#### Tuesday, April 13, Thursday, April 15, 2021 | Noon-3:00 pm

Unit 5 introduces the lean strategies and tools used to deliver materials, equipment and prefabricated assemblies to the jobsite in a manner that facilitates flow.

#### Participants upon course completion will be able to:

- Differentiate between traditional procurement practices and lean supply chain applications;
- Identify waste and value-adding activities within the supply chain and assembly;
- Evaluate the impact of using lean supply chain on waste elimination, continuous flow and site operations pull;
- Identify strategies needed at the project and company levels to support the lean supply chain;
- List examples of process improvements to the lean supply chain;
- Expand lean beyond the individual project;
- Create a value stream map to diagnose and improve the supply chain.

#### Unit 6: Lean Design and Pre-Construction

#### Tuesday, April 27, Thursday, April 29, 2021 | Noon-3:00 pm

Unit 6 introduces you to the concepts of value-based management, lean in the design process and relational contracting.

#### Participants upon course completion will be able 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.

#### UNIT 7: PROBLEM-SOLVING PRINCIPLES AND TOOLS

#### Tuesday, May 4, Thursday, May 6, 2021 | Noon-3:00 pm

Unit 7 describes the Lean Problem-Solving Process and illustrates how to use tools to solve problems in a lean manner.

#### Participants upon course completion will be able to:

- Define the difference between traditional and lean problem solving;
- Describe how to create a team environment to solve problems;
- Explain how to create trust to avoid problems;
- Describe Observation Walks;
- Identify root causes of problems.

#### EXAM PREPARATION

Tuesday, May 11, 2021 | Noon-3:00 pm

Registrants must attend each class to receive credit for the unit.





# LEAN CONSTRUCTION PROGRAM, Spring 2021 Courses, Units 1-7

# REGISTRATION:

Register On-line here

or complete 2 pages below and return by e-mail to; jwilhelm@ctconstruction.org

## REGISTER FOR: A) COURSE UNITS 1-4, OR B) COURSE UNITS 1-7, TUESDAYS & THURSDAYS

A) Units 1-4, Cost: \$1,2,00 per person - members | Cost: \$1,4,00 per person - non-members B) Units 1-7, Cost: \$2,550 per person - members | Cost: \$2,700 per person - non-members

Cost (includes 6.35% CT sales tax)

Contact Name: Company Name:					
E-Mail Address:	Phone:				
Names of Attendees:	E-Mail Address	A 1-4 B 1-7			
		_			
		_			

## LEAN CONSTRUCTION PROGRAM, SPRING 2021 COURSE SCHEDULE, UNITS 1-7

Unit 1: Variaton in Production Systems, March 23, 25, 30, 2021

Unit 2: Pull in Production, March 23, 25, 30, 2021

Unit 3: Lean Workstrucuring, April 1, 6, 8, 2021

Unit 4: The Last Planner ® Systems, April 1, 6, 8, 2021

Unit 5: Lean Supply Chain & Assembly, April 13, 15, 2021

Unit 6: Lean Design and Pre-Construction, April 27, 29, 2021

Unit 7: Problem-Solving Principles and Tools, May 4, 6, 2021

Exam Preparation, May 11, 2021





# LEAN CONSTRUCTION PROGRAM, Spring 2021 Courses, Units 1-7 Payment

Link To Zoom Video Conferencing Classes will be sent from ASKM and Associates upon Registration.

A) Course U	NITS 1-4:Num	ber Registered \$	Total C	Cost		
B) Course U	NITS 1-7:Numl	per Registered \$	Total C	Cost		
Pleas	se send Invoice (mer Credit	mbers only)Po	ayment Mailed	I		
Send checks to: AGC of	f Connecticut, 912 Silo	as Deane Highway,	Suite 112, Wetl	nersfield, CT 06109		
	CREDIT CAI	RD <b>A</b> UTHORIZATION				
Total Amount Due: \$	Credit Co	ırd Type: Visa	AMEX _	MasterCard		
Cardholder Name						
Card Number		Expiration Date				
Zip Code	CVV2	(3 digit number o	n back of Visa, A	AMEX, MC)		
Card Billing Address		-				
Ple	ease do not email or mo	ail credit card authori:	zation.			

Cancellation policy: Full refunds will be made for cancellations received **14 calendar days before the first day of class.** After that date, no refunds will be granted. Replacements accepted.

Contact Kathy Bergamo to make credit card payments at: 860-529-6855

For more information about the program, contact John Butts at <a href="mailto:jbutts@ctconstruction.org">jbutts@ctconstruction.org</a>
For more information about registration, contact John Wilhelm at <a href="mailto:jwilhelm@ctconstruction.org">jwilhelm@ctconstruction.org</a>