



INSTRUCTOR APPLICATION AGC'S LEAN CONSTRUCTION EDUCATION PROGRAM

UNIT 5: LEAN SUPPLY CHAIN AND ASSEMBLY

Lean Construction Education Program Overview

The AGC of America Lean Construction Education Program is designed to help construction professionals learn the building blocks necessary to become Lean Champions within their firm, transforming their projects and companies. This series of courses covers a range of topics essential to Lean Construction.

Course Overview

Unit 5: Lean Supply Chain and Assembly is a full-day, instructor-led course that examines the tools and principles used to improve the construction process across the entire supply chain. The course is divided into four sessions:

- Session 1 consists of an overview of what is meant by lean supply chain and lean assembly, and an introduction of how materials, equipment and off-site prefabricated assemblies are delivered and provided to the construction project according to Lean Construction principles. We also examine types of waste and start to see how they can be reduced across the supply chain.
- Session 2 presents more detailed information on the procurement strategies and planning details that can facilitate a harmonious flow of materials and equipment into the project.
- Session 3 introduces strategies for applying lean strategies to the supply chain and provides examples of applying these strategies.
- Session 4 is largely dedicated to an activity that has participants working separately and then collaboratively to create value stream maps. We also look at methods to foster and nurture the lean culture beyond the project boundaries.

Course Learning Objectives

Following successful completion of this course, participants 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; and
- Create a value stream map to diagnose and improve the supply chain.

Instructor Qualifications

AGC has established the following minimum requirements for instructors. Please check the boxes to note that you meet and/or have complied with each requirement. Use the blank lines to give a short summary and/or examples of your experience. You must check all the boxes in order to qualify as a Unit 5 instructor.

- Have developed site logistics plans and understand the importance of material, manpower and equipment flow on a construction project.

- General understanding of prefabrication and modularization and associated pros and cons. benefits Have implemented these ideas as a subcontractor or general contractor.

- General understanding of creation and use of value stream maps. Able to guide the class as to what is really important when generating a VMS.

- Experience with forms of waste, including how to identify and reduce them at both the field and management levels.

- General experience or participation with procuring material and services along with expediting materials within the supply chain.

- Reviewed a copy of the Instructor's Guide and accompanying PowerPoint slides.
- Watched the *Unit 5* instructor orientation video, found at www.agc.org/LCEP.
- Attached a curriculum vitae highlighting your Lean Construction experience.

Familiarity with Lean Construction Education Program courses

Instructors should be familiar with the subjects covered in all AGC LCEP courses to avoid unnecessary repetition of the course material. While these are not necessary to become an approved instructor, please check all that apply:

I have:	Lean Construction 101	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Purchased and reviewed the Participant's Manual						
Purchased and reviewed the Instructor's Guide packet						
Attended						
Taught						

- List any additional training you have participated in that would add to your qualifications to teach *Unit 5*.

Instructor Statement of Qualifications

I have read the statements above regarding the minimum qualifications for instructing this course and I meet those requirements.

Signature _____ Date _____

Name (please print): _____

Title: _____

Company name: _____

Mailing address: _____

Phone: _____ Email: _____

Lean Construction organization affiliations (if any): _____

AGC of America Staff Contact

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