



INSTRUCTOR APPLICATION AGC'S LEAN CONSTRUCTION EDUCATION PROGRAM

UNIT 7: PROBLEM-SOLVING PRINCIPLES AND TOOLS

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 7: Problem-solving Principles and Tools is a six-hour, instructor-led course that introduces you to the use of teamwork in solving problems and useful tools to support the problem-solving process.

Session 1 – Team Problem Solving

Session 2 – Lean Construction Problem Solving Tools

Session 3 – Using the Tools

Course Learning Objectives

Following successful completion of this course, participants will be able to:

- Explain the Lean Problem Solving Process.
- Use tools to solve problems in a lean manner.
- Describe how to solve problems in a team.
- Use an A3 as a problem solving and communication tool.
- Describe the use of the other tools available for problem solving.

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 6 instructor.

- Have applied lean problem-solving principles and tools on a construction project, and have used the tools to solve problems in a lean manner as part of a cross-functional team.

- Have applied lean theory in the design phase of a construction project, and have distinguished between the many definitions of design as part of a cross –functional team.

- Have obtained a lean mindset of prefabrication and modularization and associated pros and cons. Benefits. Have implemented these ideas as a subcontractor or general contractor.

- General understanding of tools used to achieve lean design. Have applied the Five Big Ideas fundamental to the development of Lean Project Delivery System (LPDS).

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

- General experience or participation with involving contractors in the Lean Project Delivery System.

- Reviewed a copy of the Instructor's Guide and accompanying PowerPoint slides.
- Watched the *Unit 7* instructor orientation video, found at www.agc.org/LCEP.
- Attached 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 Video	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
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 7*.

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

Director, Lean Construction Education Program

Phone: (703) 837-5366

Email: curriculum@agc.org