Training and Education
August 2020
# August 2020
## Education and Training Catalog

### Table of Contents

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration, Cancellation &amp; Payment Policies</td>
<td>4</td>
</tr>
<tr>
<td>Webinar: Your Client is Requesting Lean: How Do You Win Their Project?</td>
<td>5</td>
</tr>
<tr>
<td>Basic Construction Stormwater Compliance</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Stormwater Manager’s Course</td>
<td>7</td>
</tr>
<tr>
<td>Lean Construction Education Program</td>
<td>8</td>
</tr>
<tr>
<td>Lean Unit 1: Variation in Production Systems</td>
<td>9</td>
</tr>
<tr>
<td>Lean Unit 2: Pull in Production</td>
<td>10</td>
</tr>
<tr>
<td>Lean Unit 3: Workstructuring</td>
<td>11</td>
</tr>
<tr>
<td>Lean Unit 4: The Last Planner System</td>
<td>12</td>
</tr>
<tr>
<td>Lean Unit 5: Supply Chair &amp; Assembly</td>
<td>13</td>
</tr>
<tr>
<td>Lean Unit 6: Design &amp; Pre-construction</td>
<td>14</td>
</tr>
<tr>
<td>Lean Unit 7: Problem-Solving Principles &amp; Tools</td>
<td>15</td>
</tr>
</tbody>
</table>
Registration Procedures and Policies

Registration can be found online at agccolorado.org/Event and Education/Classes.

Substitute Registrant Changes
Substitute registrants can be named at any time.

Cancellation Policy
A full refund will be given if notification is received by AGC Colorado three business days prior to the course start date. If a cancellation is received with less than three business days before the class, or if registrant(s) chose not to attend, the registration fee is forfeited.

Payment
Payment can be made online by credit card. Members may be invoiced for registration fees, with the payment due prior to the start date of the class.

Member Rate
Applies to AGC members that are in good standing. If you are from another chapter of AGC, please contact Cathy Bedell at cathy@agccolorado.org for assistance with your registration.

Low Enrollment
AGC Colorado reserves the right to reschedule or cancel any course within 48 hours of the scheduled date due to low enrollment. Attendees will be notified by email of any changes or cancellations.

Need Assistance or have a question?
Please contact (303) 388-2422 or Cathy Bedell at cathy@agccolorado.org.
Online and Live
Your Client is Requesting Lean: How Do You Win Their Project?

Tuesday, August 4
11:00 am - 12:30 pm

Owners are more frequently requesting that their project teams bring Lean and/or integrated practices to their projects. General Contractors are also demanding that their trades practice Lean methods onsite, including the Last Planner System. How do you address these requests, especially when many of your clients themselves may not fully understand lean project delivery? How do you have meaningful conversations in your qualifications package, proposal and – most importantly - the interview?

Join us August 4 for a webinar addressing the challenge of securing work on Lean projects. This webinar is designed for construction managers, building trades, architects, and engineers with limited Lean project delivery experience, with the following objectives:

- Provide you with a basic understanding of Lean design and construction vocabulary, practices, and culture.
- Position you to discuss how your team contributes to a project and can address owner and GC concerns using Lean practices.

Understand what the owner or General Contractor is actually looking for when they cite “Integrated Project Delivery” and other Lean terms. This will be 60 minute presentation with 30 minutes for live questions and answers from expert Lean consultants in the building industry.
Online and Live
Basic Construction Stormwater Compliance

Thursday, August 6
7:00 am - 12:00 pm

This course covers the basics of construction Stormwater permit management and pollutant discharge prevention for construction sites. The appropriate uses of erosion and sediment control best management practices and good housekeeping methods are reviewed in relation to the Stormwater regulations. The one day course will provide each participant with compliance resources and a broad understanding of the proven tools and methods available to achieve compliance with local, state, and federal Stormwater regulations.

This Basic Construction Stormwater Compliance class meets the prerequisite requirements for participation in the Advanced Stormwater Managers Training.

The class will cover:

- History of Stormwater regulations and their structure
- Past enforcement actions and what you can learn from them
- Components of the Stormwater Management Plan (SWMP) for your site
- Fundamentals of erosion control and pollution prevention
- Appropriate Best Management Practices (BMPs) for different pollution sources
- How to evaluate adequate and cost-effective methods of achieving compliance
- Jobsite documentation requirements and methods to achieve compliance
- Proven and effective standardized methods for conducting consistent and thorough site inspections to achieve permit compliance

Register
Online and Live
Advanced Stormwater Manager’s Course

Thursday, August 13
7:00 am - 2:00 pm

Prerequisite:
Successful completion of Basic Construction Stormwater Compliance course.

Description:
This training course has been designed to go beyond simply informing participants of their obligations under the Stormwater Construction General Permit (CGP). The course provides participants with proven tools and resources as well as the Uniform Stormwater Management System (USMS) that, when properly implemented, will result in full permit compliance on the jobsite. The standardized inspection approach taught in this class can also be utilized by anyone responsible for conducting thorough CGP site inspections and audits. The one-day class is focused on using the USMS and associated forms and tools to meet the requirements of the CGP and local municipal (MS4) permit requirements.

Upon completion of the course, students will be able to:

- Explain the CGP framework and compliance requirements
- Quickly locate all necessary compliance resources quickly in the AGC/C online consolidated resource list
- Utilize the standardized Site Documentation Checklists available
- Implement an effective, standardized stormwater compliance program using the AGC/C systems and tools
- Perform and properly document thorough site inspections and corrective actions
- Evaluate and implement cost-effective BMPs appropriate for varying site conditions
- Maintain all CGP-required compliance records
- Train others in the use of the Standardized Compliance Approach

Who Should Attend: SWMP Administrators, Site Foreman, Superintendents, Project Managers, Pre-construction

AGC members/$450
Non-members/$750

Register
Online and Live

Lean Construction Education Program (LCEP)

August 18 - September 2

AGC Colorado is proud to bring the Lean Construction Education Program (LCEP) online and live. Lean Construction is based on the holistic pursuit to optimize efficiency, maximize value, and minimize costs through all phases of a construction project: planning, design, construction, activation, operations, maintenance, salvaging, and recycling. Everyone related to the construction process has an incentive to get the project done faster and at a lower cost - from the project owners who want to see tangible results for their investment, to the contractors and designers who want to do their job well and move on to the next project.

AGC of America developed the 7-unit Lean Construction Education Program (LCEP) to help contractors develop the knowledge needed to build projects using Lean practices. Construction professionals at all experience levels will learn the building blocks necessary to transform their projects and companies into a Lean operating system. Please turn to the next pages for more information about each of the following Lean Units.

Lean Unit 1: Variation in Production Systems
Lean Unit 2: Pull in Production
Lean Unit 3: Workstructuring
Lean Unit 4: The Last Planner System
Lean Unit 5: Supply Chair & Assembly
Lean Unit 6: Design & Pre-construction
Lean Unit 7: Problem-Solving Principles & Tools

Instructor:
Susan Pratt Reinhardt, AIA
Design and Lean Project Management Strategist

Susan began her career as an architect in 1991 designing schools in Switzerland. She excels at managing complex projects with multiple stakeholders, and has acted as project manager for public projects ranging from a $1.5M mountain library to $30M recreation centers to a $4B university in Saudi Arabia.

Susan quickly developed a reputation for rescuing failing projects and bringing order out of chaos. She began developing new project management methods early in her career to ensure that projects were successful from the beginning. She now coaches project teams on Lean methods, helping them thoroughly satisfy their clients on time and on budget, but NOT on holidays or weekends!

As a Lean consultant, Susan has provided coaching for owners, designers, and contractors on Target Value Delivery, Last Planner System, A3 Thinking, Reliable Promising, Leadership Development, and Choosing by Advantages. Projects include facilities in major new technology, healthcare, pharmaceuticals, and GSA offices.
Online and Live
Lean Unit 1: Variation in Production Systems

Tuesday, August 18
8:00 am - 12:00 pm

Lean Unit 1: Variation in Production Systems is an introductory course in the Lean Construction Education Program. This half-day, instructor-led course teaches the concept of variation. Following this course, students will be able to:

• Define the different types of variation
• Explain the concept of throughput
• Distinguish the concepts of throughput and work in progress
• Describe the role of variation in production operations
• List sources of variation in construction settings
• Explain variation mitigation techniques
• Contrast variation mitigation techniques

AGC members/$300
Non-members/$400

15% Discount when registering for all 7 units.
Please contact Cathy Bedell at cathy@agccolorado.org for more information.

Register
Online and Live

Lean Unit 2: Pull in Production

Wednesday, August 19
8:00 am - 12:00 pm

Lean Unit 2: Pull in Production is a half-day, instructor-led course that explains the concept of pull as a means to reliable production workflow. Following this course, students 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
- Explain pull strategies in construction operations

Register
Online and Live
Lean Unit 3: Workstructuring

Thursday, August 20
8:00 am - 12:00 pm

Lean Unit 3: Lean Workstructuring is the first of two units that introduces the Last Planner System (LPS). This system was developed by the Lean Construction Institute (LCI) to plan projects in a way that produces predictable workflow and rapid learning. This half-day, instructor-led course describes the process of Lean Workstructuring. Following this course, students will be able to:

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

15% Discount when registering for all 7 units.
Please contact Cathy Bedell at cathy@agccolorado.org for more information.

Register
Online and Live
Lean Unit 4: The Last Planner® System

Friday, August 21
8:00 am - 12:00 pm

Lean Unit 4: The Last Planner® System is the second of two units introducing the Last Planner® System (LPS). This system was developed by the Lean construction Institute (LCI) to plan projects in a way that produces predictable workflow and rapid learning. This half-day, facilitator-led course shows how to conduct make-ready and weekly work planning sessions. Following this course, students 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 to compete for a project

15% Discount when registering for all 7 units.
Please contact Cathy Bedell at cathy@agccolorado.org for more information.

Register
Online and Live
Lean Unit 5: Lean Supply Chain & Assembly

Tuesday, August 25 &
Wednesday, August 26
8:00 am - 11:00 am

Lean Unit 5: Lean Supply Chain & Assembly is a one-day, instructor-led course that explains the concept of lean supply chain and assembly. Following this course, students 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.

Register
Online and Live
Lean Unit 6: Design & Pre-Construction

Thursday, August 27 &
Friday, August 28
8:00 am - 11:00 am

Unit 6: Lean Design & 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. Following this course, students 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.

Please contact Cathy Bedell at cathy@agccolorado.org

Register
Online and Live
Lean Unit 7: Problem-Solving Principles & Tools

Tuesday, September 1 &
Wednesday, September 2
8:00 am - 11:00 am

Lean Unit 7: Problem-Solving Principles & Tools is a one day instructor-led course that describes the Lean Problem-solving Process and illustrates how to use tools to solve problems in a Lean manner. Following this course, students 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.

AGC members/$300
Non-members/$400

15% Discount when registering for all 7 units.
Please contact Cathy Bedell at cathy@agccolorado.org

Register