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LEAN Construction: Transforming the Construction Industry through LEAN Practices

Core Competencies

- Strategy Development and Execution
- Financial Analysis and Alignment
- Funding/Capitalization Strategies
- Supply Chain Optimization
- Lean Process Design and Implementation
- Process Improvement
- Systems Design and Implementation
- Procurement and Bid Process Support
- Organizational and Human Systems

Industries

- Automotive, Aerospace and Transportation
- Chemicals, Polymers and Allied Industries
- Energy and Environment
- Engineering, Procurement and Construction
- Financial and Legal Services
- Food, Beverage, Consumer Products and Retail
- Government
- General Manufacturing, Distribution and Logistics
- Microelectronics and Information Technology
- Pharmaceutical, Medical Device and Equipment
- Printing, Publishing and Broadcast Media
- Training and eLearning

How can owners, architects/engineers, contractors and subcontractors, laborers and suppliers ensure that, on their next construction project, they:

- Keep work and materials flowing so that crews are always productive,
- Minimize rework and change orders,
- Reduce inventories of materials and tools,
- Reduce costs,
- Deliver to spec, on-time and on-budget, and
- Achieve an accident-free work environment?

Numerous studies have identified several critical shortcomings related to traditional construction practices, including:

- Owner dissatisfaction with both process and end product
- Poor quality, schedule and cost performance resulting from inefficiencies and waste
- A critical shortage of skilled and highly motivated workers

LEAN Construction, in combination with Building Information Modeling (BIM) and Integrated Project Delivery (IPD), provides the key to effectively conquering these shortcomings and transforming the building construction industry to the lasting benefit of all stakeholders.

LEAN Construction is:

- The application of LEAN principles, originally developed for the manufacturing environment, to design, engineering and construction
- A way to design construction systems to minimize WASTE of materials, time and effort in order to generate maximum VALUE and increase customer and end-user SATISFACTION
- A method of ensuring that construction projects are delivered on time, within or under budget, and at the desired quality and utility as defined by the customer

Each of Criterion's practitioners has at least 25 years of experience delivering real results across a broad spectrum of core competencies and industries. We are operators, not career consultants. And we have a solid reputation for helping drive bottom-line growth. We have a proven track record of successfully applying LEAN practices in manufacturing and non-manufacturing environments, including LEAN construction.

The implementation of LEAN concepts to the construction industry has applicability across the entire construction value chain, including:

- Concept, design and engineering
- Procurement and supply chain
- Construction
- Commissioning
- Maintenance
- Decommissioning, salvage and recycling

Our approach to LEAN Construction employs a variety of key concepts and tools, including:

- Highly experiential, participatory LEAN Construction workshops and Value Stream Mapping
- Human change management / cultural realignment
- Integrated Project Delivery (IPD)
- Coordination with Building Information Modeling (BIM) processes
- Last Planner System
 - Collaborative scheduling/programming
 - Risk analysis
 - Make Ready process
 - Weekly Work Plans
 - Daily and Weekly Look-Aheads
 - PPC (Percent of Promises Completed) analysis
 - Promise Cycle
- Pareto Analysis and Continuous Improvement
- Other traditional LEAN tools, such as 6S, Kanban, Kaizen, Mistake Proofing and Visual Control

LEAN is, at its core, a transformative way of thinking and seeing, NOT a set of tools to be implemented by outside parties.

That's why we work diligently to give you the mindset, perspective, skills, tools and resources to transform your own construction projects and to continue to improve performance long into the future.

Criterion can help you transform your project management and construction efforts to deliver real, sustainable benefits to all stakeholders. Call on us when you need a highly experienced team of experts you can rely on to deliver real results, not just talk. Your success is our only criterion.