

LEAN MANUFACTURING ENGINEER

Division/Department	Design Department
Location	Denver, Colorado
Job Title	Lean Manufacturing Engineer
Reports to	Executive Vice President

GENERAL DESCRIPTION

Facilitate the development and implementation of significant process improvements within the company, and when necessary, to aid in processes that directly affect the company's ability to deliver products and services to customers. The focus of this position is to eliminate waste through the use of lean principles as applied to the production of prestressed/precast concrete products. Also, this position is responsible for tracking and reporting all project progress, successes and failures.

This position will be responsible for supporting precast manufacturing teams in developing and applying reliable manufacturing engineering methods, theories and research techniques in the investigation and solution of manufacturing technical problems. This team member will be required to apply basic industrial engineering concepts, techniques, analysis and tools to support, design and / or implement new manufacturing methodologies for operations. They will also be required to maintain detailed documentation and effectively communicate with the operations, design and support teams. Considerations for safety, quality and delivery are required in all manufacturing engineering decisions.

RESPONSIBILITIES

Management or preparation of required design and details for all projects, while taking into account:

- The employee is the company's expert on Lean methods and lean principles. The employee provides training to all staff on the methods and practices for improving processes, eliminating waste, improving customer service and adding profit to the bottom line. This includes using tools such as value stream mapping, Lean events, root cause analysis.
- Lead a cross functional team through processes including tracking and reporting of progress, managing issues and risks and implementing best-practice techniques and tools throughout the organization as a result of the initiative.
- Serve as a change agent for the initiative by process discipline, quality focus, transparency and accountability; improve key business metrics by implementing and supporting lean activities.
- Identify opportunities or implement changes to improve products or reduce costs using knowledge of fabrication processes, tooling and production equipment, assembly methods, quality control standards, or product design, materials and parts.
- Determine root causes of failures using statistical methods and recommend changes in designs, tolerances, or processing methods.
- Provide technical expertise or support related to manufacturing.
- Incorporate new methods and processes to improve existing operations.
- Troubleshoot new or existing product problems involving designs, materials, or processes.
- Review product designs for manufacturability or completeness.
- Train production personnel in new or existing methods.
- Communicate manufacturing capabilities, production schedules, or other information to facilitate production processes.
- Design, install, or troubleshoot manufacturing equipment.
- Perform other manufacturing/industrial engineering duties.
- Implementing lean practices including standard work, 5S, value stream mapping, problem solving, Kaizen, etc.

PERFORMANCE REQUIREMENTS

- Carry out assigned tasks with a professional demeanor reflected in excellent written and oral communication skills, listening skills, patience, analytical reasoning and problem solving abilities.
- Experience with Total Predictive Maintenance (TPM), or similar (WCM, Shingo, etc.) principles.
- Thorough understanding of process improvement methodologies: Lean, Total Quality Management.
- Proven track record leading Lean projects and events using industry standard tools and methods to deliver results.
- Demonstrated strengths in project management processes and methodologies including phase gate review, planning and review methods.
- Excellent training and presentation skills with solid communication capabilities and practices both oral and written.
- Must be competent facilitating Lean events, directly providing hands on leadership of key projects and teams.
- Experience going from the shop floor to senior management levels facilitating change in a diverse culture of employees.
- The candidate should have the ability to lead others and facilitate projects from start to finish, and to hold self and others accountable.
- Passionate about Lean and the attainment of key initiatives.
- Enjoys plant level, hands-on involvement in the improvement process.

NOTE: This job description is not intended to be all-inclusive. Employee may perform other related duties as negotiated to meet the ongoing needs of the organization.



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QUALIFICATION REQUIREMENTS

- The candidate must have Lean Manufacturing training, and at least 3 years of hands on experience in the same field.
- Must have a BS in Engineering
- Professional Engineering registration preferred
- Must be a proven team leader with supervisory and managerial skill sets
- Process/Manufacturing Engineering experience in an a precast concrete manufacturing environment is preferred
- Must be proficient with computers and general engineering software solutions
- Must be able to effectively communicate in both written and verbal forms
- Experience with precast manufacturing process technologies preferred
- Must be able to demonstrate proficiency in time and project management
- Certifications in Lean Manufacturing are a plus

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