

LEAN AND GREEN

Are you struggling to find new and untapped low-cost opportunities to reduce your organization's energy and environmental impacts? Are you looking for affordable ways to learn and get support for implementing a successful Lean Six Sigma project into your organization? Are you looking to get environmental projects integrated into your organization's continuous improvement initiatives that will deliver both operational and environmental cost reductions?

Lean and Six Sigma both rely on a continuous improvement culture to remove process waste. When applied to environmental wastes, these methods help uncover opportunities and inefficiencies in your facility that fall outside of traditional approaches. Results will lead to pollution prevention, energy reduction, help navigate regulatory and permitting issues, improve worker morale and engagement, improve public and customer image, reduce operating costs, and improve process efficiency.

PROJECT SUPPORT/COACHING

PROGRAM OVERVIEW:

This pilot program will involve 5-10 interested organizations that will meet weekly to reduce your facility's environmental impacts and costs. We will help your project team of 2-4 people identify an environmental project at your facility with support from your top management. Through customized training and coaching/support calls, we will help you navigate through the DMAIC roadmap to apply Lean and Six Sigma methods to complete an improvement project. Projects can focus on reducing chemicals, water, energy, hazardous waste, air emissions, or solid waste. Weekly support calls will ensure project progress, answer questions, and support the project through completion. Lean and Green certificate from Ecology provided upon completion of the program/project.

PROGRAM GOAL:

Each company will identify a project that can achieve top management support and aligns with environmental goals.

The goal for each project is to save at least \$5,000 for each organization. Previous successes include:

- **Columbia Paint & Coatings** recovered 49,200 lbs per year of paint solids from wash water. They reduced wastewater by 36,900 gallons per year based on a few Lean and environment events.
- **Woodfold Manufacturing** reduced volatile organic compound (VOC) emissions by nearly 1,000 lbs per year. It diverted 6 tons per year of solid PVC waste from the landfill through opportunities identified in a value stream mapping event.

ATTENDEES WILL:

- Receive coaching on an existing project to keep it on track or kick-off a project with expert guidance and support.
- Learn from weekly coaching calls with Lean Six Sigma and Department of Ecology experts
- Learn popular Lean and Six Sigma methods and understand how they apply in your facility
- Present a successful Lean Six Sigma project that reduces an environmental impact in your facility
- Achieve a Lean and Green certificate
- Integrate environmental and energy considerations and benefits into future continuous improvement efforts

THIS PROGRAM IS DESIGNED FOR:

- Process, Manufacturing and Industrial Engineers
- Environmental Health and Safety managers and engineers
- Sustainability professionals
- Manufacturing Technicians
- Facility Managers
- Production Managers
- Operations Managers
- Process Improvement Specialists and Consultants

TOPICS:

Defining a project charter, aligning Lean, EHS, and Facilities, data collection methods, waste/gemba walks, process mapping, surveys, observations, data analysis, root cause analysis, kaizen, 5S workplace organization, brainstorming, prioritization tools (ease/impact matrix), pilot studies, statistical analysis, change management, statistical process controls, standard work, capture cost and impact of the project, project report outs and documentation, project certification.

LENGTH:

9 months (Jan – Sept) - project work with weekly support calls

CONTENT OR PROGRAM STRUCTURE CONTACT:

Brion Hurley - Program Lead and Coach

A Lean Six Sigma Master Black Belt with Business Performance Improvement. He spent 18 years in the Aerospace industry, and has spent the past 10 years working on sustainability projects to reduce private sector environmental impacts and improve nonprofit operations.

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PROGRAM PARTNER:



ELIGIBILITY OR TECHNICAL QUESTIONS:

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