

A PRACTICAL APPROACH TO *LEAN*

- Lack of materials brings construction to a halt.
- Time is wasted fixing mistakes.
- An equipment break-down causes critical delays.
- A contractor rifles through a drawing package to find what is needed.

These situations represent wasted effort and time that directly impacts a project's cost, lead time, and quality.

THE PROGRAM

We are excited to partner with the National Research Council Canada to offer a group training program aimed at arming participants with the ability to solve problems through collaboration.

FREE INFORMATION SESSION

DATE: Monday October 22, 2018

TIME: 8:30 am

LOCATION: SICA Training Centre
#204-171 Commercial Drive

WHO SHOULD ATTEND: Business Owners & Senior Leadership

PRACTICAL & JARGON-FREE

Implement a culture of problem solving:

- Define value from your customer's perspective
- Visually capture current process and wasteful activities
- Identify improvements and prioritize them for implementation
- Improve using Plan, Do, Check, Act
 - Design and implement effective solutions

Resulting impact on:

- Costs
- Lead-time
- Quality
- Culture

THE LAST PLANNER® SYSTEM

- Learn to plan work for predictable workflow, increased customer value, shortened lead times, and reduced risk
- Step by step instructions on how to implement The Last Planner System

THE 5S SYSTEM FOR WORKPLACE ORGANIZATION

- Boost **productivity, safety, and morale**
- Step by step instructions on how to implement the 5S System

Process Innovation Consortium for Construction

OVERVIEW

The *Process Innovation Consortium for Construction* program is a group training program aimed at arming participants with the ability to design and implement innovative solutions for problems plaguing the construction industry. Program objectives are:

- To educate participants on the Lean tools and concepts
- To enable participants to facilitate problem solving workshops
- To facilitate the implementation of innovative solutions within and across participating organizations
- To foster collaboration and trust between service delivery partners within the industry

PROGRAM STRUCTURE

Each group consists of participants from 10 companies. The Lean Leads from each company will progress through the training modules together and then implement the various concepts within, and across, their respective organizations.

ROLES AND TIME REQUIREMENTS

Executive Sponsor: Individual in a senior level position ultimately accountable for success of the program. Their role is to support the Leads, free up the resources to complete implementation activities and remove roadblocks.

- Required time commitment: Two half-day sessions plus regular check-ins with the Lean Leads.

Lean Leads: Individuals who will attend the training workshops and lead the implementation of the tools within their organization. Total of 3 per company. Participants meeting program requirements will obtain certification as a Lean Green Belt.

- Required time commitment: 6 full-days of training, implementation of tools, monthly progress calls, program graduation.

THE TOOLS

Introduction to Lean Construction: An overview of the Lean concepts will be provided, including value-adding activities, the 7 types of waste negatively impacting productivity, lead times, and customer satisfaction, and how to identify where waste is trapped. Duration: one day.

Value Stream Mapping (one day): A Value Stream Map (VSM) visually captures all of the activities required to bring a project from initiation to completion and pinpoints where wasteful activities are occurring. During this workshop, the Leads will be introduced to value stream maps, receive training on how to facilitate a VSM workshop, and create the implementation plan for their organization. Duration: one day.

Last Planner® System (LP®S): The LP®S is a production planning system designed to produce predictable work flow and rapid learning throughout the design, construction and commissioning of projects.

Consistent use of the tool can increase reliability and provide consistent schedules to customers. In this session, Leads will learn the various parts of the system and create the implementation plan for a project. Duration: one day.

Problem Solving: *Plan, Do, Check, Act* is a system used to design and implement effective solutions to problems. During this workshop, the Leads will be introduced to the tools, practice facilitating them, and create the implementation plan for their organization. Duration: two days.

5S: 5S is a system for organizing areas so work can be performed efficiently and safely. The system focuses on keeping the workplace clean, making it easier for people to do their jobs without wasting time or risking injury. In this session, Leads will receive training on the system and create the implementation plan for their organization. Duration: one day.

ANTICIPATED PROGRAM TIMELINE

| KEY ACTIVITIES | Month | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept |
|--|---|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|------|
| Lean assessments | | | | | | | | | | | | | |
| Planning session with Executive Sponsors from participating companies | | | | | | | | | | | | | |
| Training For Leads: | | | | | | | | | | | | | |
| Introduction to Lean: 1 day | | | | | | | | | | | | | |
| Value Stream Mapping Training: 1 day | | | | | | | | | | | | | |
| Completion of the VSM for each participating company, facilitated by Leads | | | | | | | | | | | | | |
| Last Planner® System Training: 1 day | | | | | | | | | | | | | |
| Last Planner® System implementation led by company Leads | | | | | | | | | | | | | |
| Problem Solving Training: 2 days | | | | | | | | | | | | | |
| Problem solving implementation led by Lean Leads | | | | | | | | | | | | | |
| 5S Training: 1 day | | | | | | | | | | | | | |
| 5S Implementation within each participating company, led by company Leads | | | | | | | | | | | | | |
| Monthly Progress Calls with Leads | | | | | | | | | | | | | |
| One-hour calls with Leads from all participating companies | | | | | | | | | | | | | |
| Program Wrap Up | | | | | | | | | | | | | |
| Program report out and graduation | | | | | | | | | | | | | |
| Legend: | | | | | | | | | | | | | |
| | ■ Training provided by Lean U | | | | | | | | | | | | |
| | ■ Project work completed by company Leads | | | | | | | | | | | | |

COST

We are thrilled to have partnered with National Research Council Canada which is providing funding for the program, bringing total fees from \$6,000 to **\$1,500 + GST** per company.

THE TRAINER AND COACH



Christy Nikel is the President of Lean U Consulting Inc. located in Vancouver, British Columbia. She has been focused on teaching and implementing Lean process improvement techniques for more than 15 years and has attained status of Master Lean Black Belt. In addition to her Black Belt certification, Christy holds a Bachelor of Arts degree with specialization in Economics from the University of Manitoba.

Christy's contact information is as follows:

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