

# Lean Six Sigma Green Belt – Edmonton GB1902

## Training, Coaching, and Certification Program

### Purpose

- Train participants on Lean Six Sigma (LSS) principles up to the Green Belt (GB) skills level
- Participants receive the necessary LSS knowledge, materials, and templates for self-sufficiency
- Coach participants as they implement productivity improvement projects at their companies
- Lead successful participants to LSS GB certification
- Participating companies build internal self-sufficient productivity improvement internal capacity

### Duration

Two weeks/80 hours of intense training in class over a two-month period while participants implement a productivity improvement project at their companies. In-class training will be from 8:00am to 4:30pm each day, plus homework.

### Dates

Week 1: October 7-11, 2019

Week 2: November 25-29, 2019

### Number of Participants

\*Maximum of **fifteen** participants and minimum of **six** participants based on first-come first-served.

### Program Cost

Course fee is \$6,000 per participant plus applicable taxes. Cost includes training and implementation materials and meals (breakfast, lunch, and snacks) during the training. Companies sponsor their employee to participate.

### Computer Software Requirements

It is highly recommended that participants have Minitab computer statistical software installed in their laptops. If your organization uses other statistical software packages such as JMP or Sigma XL, it is possible to use them. Alternatively, if the statistical analysis opportunities within your organization are limited, it is possible to take advantage of Minitab's free 30-day trial. Minitab is a very powerful program, and using Minitab within your organization can be a very important component of an effective continuous improvement program.

### Job Grant Eligible

Lean Six Sigma Green Belt course and software are eligible for the Canada-Alberta Job Grant. Applications will be assessed on a first come, first served basis, with the exception of applications for unemployed trainees, which will be assessed on a priority basis. For detailed information on the Canada-Alberta job grant please see their website, Canada-Alberta Job grant website, <https://www.alberta.ca/canada-alberta-job-grant.aspx>

### Training Location

#### **GO Productivity**

NAIT Productivity Innovation Centre

10210 Princess Elizabeth Ave NW, Edmonton, AB T5G 0Y2

## LSS GB Program Agenda

The attached weekly training agenda follows the DMAIC improvement methodology (Define, Measure, Analyze, Improve, and Control phases,) that is the natural progression of productivity improvement projects. During the training, the participants will implement a productivity improvement project at their company and will receive coaching on the projects.

Participants will meet with a GO Productivity instructor prior to attending the course to identify and scope a suitable project. Ideal projects for Green Belt training are in a familiar functional area, have support from leadership, and foreseeably yield measurable savings. Past Green Belt projects typically yield upwards of \$20,000 in annual benefits and often achieve \$200,000 or more in annual benefits. The amount of savings achieved with each project depend on size and scope, but should demonstrate some measurable benefit greater than the initial investment. Your GO Productivity instructor will work with you to ensure your project is appropriate for the course.

## Qualifying Criteria

### Participants

- Passion for improving productivity
- Excellent interpersonal skills. Ability to lead teams and overcome obstacles
- Familiar with productivity improvement principles
- Have been involved in projects that improved productivity
- Willing to put in the rigor that is required to complete the program successfully

### Companies

- Interested and willing to support productivity improvement initiatives at their company
- Looking to build an internal self-sufficient productivity improvement capacity
- Willing to sponsor their employee to attend the program
- Support the participant to implement a project during the training period
- Want to become a beacon of productivity success in Alberta

## Contacts:

For more information and/or to register your interest please call or email:

- Pam Thompson, Relationship Manager  
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- Scott Penner, Operational Excellence  
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**Confidentiality clause:** The information that will be received by GO Productivity will be used solely for the purpose of this program and any other step(s) that GO Productivity may be engaged with the participants and their company.

## Week 1 – LSS GB Training & Coaching

| Lean Modules |               | Six Sigma Modules                  |
|--------------|---------------|------------------------------------|
| DMAIC        | Module Number | Module Title                       |
| O            | 1             | Introduction and Course Overview   |
| O            | 2             | Intro to Lean Six Sigma            |
| D            | 3             | Intro to Define and Gate Reviews   |
| D            | 4             | Project Charter                    |
| D            | 5             | Project and Change Management      |
| D            | 6             | Key Lean Concepts                  |
| D            | 7             | Transactional Lead Time Simulation |
| D            | 8             | Gathering VOC                      |
| M            | 9             | Introduction to Measure            |
| M            | 10            | Document and Analyze the Process   |
| M            | 11            | Cause & Effect Matrix              |
| M            | 11.5          | Minitab Overview                   |
| M            | 12            | Basic Statistics                   |
| M            | 13            | Data Collection                    |
| M            | 14            | Control Charts                     |
| M            | 15            | Measurement System Analysis (MSA)  |
| M            | 16            | Process Capability                 |
|              |               | Project Coaching / Teach Back      |
|              |               | LSS GB Week 1 Training Test        |

## Week 2 – LSS GB Training & Coaching

| Lean Modules |               | Six Sigma Modules                            |
|--------------|---------------|--|
| DMAIC        | Module Number | Module Title                                 |
|              | 16.5          | Week 2 Introduction and Week 1 Review        |
| A            | 17            | Introduction to Analyze                      |
| A            | 18            | Root Cause ID and Validation                 |
| A            | 19            | FMEA   |
| A            | 20            | Hypothesis Testing                           |
| A            | 21            | Means and Variance Tests                     |
| A            | 22            | Simple Linear Regression                     |
| I            | 23            | Introduction to Improve                      |
| I            | 24            | Solution Development                         |
| QI           | 25            | Quick Improvement - Quick Wins and Kaizen    |
| QI           | 26            | Quick Improvement - Process Flow Improvement |
| QI           | 27            | Conwip/WCS                                   |
| QI           | 28            | ABC Stratification                           |
| QI           | 29            | Replenishment Pull Systems                   |
| I            | 30            | Implementation                               |
| QI           | 31            | Quick Improvement - 5S                       |
| C            | 32            | Introduction to Control                      |
| C            | 33            | Mistake Proofing                             |
| C            | 34            | Process Control Methods                      |
|              |               | Project Coaching / Teach Back                |
|              |               | LSS GB Final Test                            |