

**ONLINE**  
**CERTIFIED LEAN SIX SIGMA GREEN BELT (CLSSGB)**  
**Training & Certification Course**

May 8, 15, 22, 29, June 5, 12, 19, 2021  
Saturdays, 9:00am-5:00pm  
Via ZOOM

**Rationale:**

Lean Six Sigma is a process improvement methodology that combines the benefits of both Lean techniques and Six Sigma to help companies streamline operations, increase value and reduce waste. One of the big gains of Lean Six Sigma is an increase in employee involvement through their participation on process improvement teams designed to help them improve processes and increase value for their customers, internal and external.

It is in this context that the CERTIFIED LEAN SIX SIGMA GREEN BELT (CLSSGB) Training & Certification Course is being offered as a key initiative of the e<sup>2</sup> Consulting Inc. - Efficiency + Effectiveness. It is intended to provide certification course to professionals who want to enhance their skills in developing, implementing, and managing quality through lean 6 sigma projects in their organizations.

It is a 56-hour course program focuses on the comprehensive knowledge, and skills necessary to develop and implement lean 6 sigma projects with the use of its principles, practices, tools, and approaches that will result to continuous improvement of the organizations.

The course is totally virtually participative and one of the aims will be to enable the participant to start up a lean 6 sigma program in their respective organizations after the course and to plan the role out.

The course is competency based and will incorporate online discussions, instructions, and workshop exercises.

**Course Objectives:**

At the end of the course, the participants will be able to:

- Recall or recognize terms, definitions, facts, ideas, materials, patterns, sequences, methods, & principles of lean six sigma.
- Understand descriptions, communications, reports, tables, diagrams, directions, and regulations on lean six sigma.

- Know when and how to use ideas, procedures, methods, formulas, principles, & theories on lean six sigma
- Break down information into its constituent parts and recognize their relationship to one another and how they are organized; identify sublevel factors or salient data from a complex scenario on lean six sigma.
- Make judgments about the value of proposed ideas, & solutions by comparing the proposal to specific criteria or standards on lean six sigma.
- Be ready in obtaining a certification on lean six sigma green belt

**Course Outline:**

Since our training and certification is internationally accredited by the Council for Six Sigma Certification (CSSC), the Official Industry Standard for Six Sigma Accreditation based in New York, USA, we aligned our curriculum based on their prescribed body of knowledge on lean six sigma green belt program. You may check our accreditation and visit their website at <https://www.sixsigmacouncil.org/>

**I. Lean Six Sigma Concepts**

- 1.1 The Lean Enterprise
- 1.2 What is Six Sigma?
- 1.3 Six Sigma History and Application
- 1.4 Basic Lean Six Sigma Team Management
- 1.5 Lean Six Sigma Roles & Responsibilities
- 1.6 Introduction to DMAIC and DMADV
- 1.7 Lean Six Sigma Concepts Tollgate Review

**II. Define Phase**

- 2.1 Voice of the Customer, Business and Process
- 2.2 Critical to Quality Characteristics (CTQ's)
- 2.3 Cost of Poor Quality (COPQ)
- 2.4 Selecting Lean Six Sigma Projects
- 2.5 Project Charter
- 2.6 High Level Process Mapping
  - 2.6.1 SIPOC
  - 2.6.2 Deployment Chart
  - 2.6.3 Swimlane Chart
- 2.6 Define Tollgate Review

**III. Measure Phase**

- 3.1 Process Definition
  - 3.1.1 Flow Process Chart
  - 3.1.2 Value Stream Map
- 3.2 Six Sigma Statistics
  - 3.2.1 Basic Statistics
  - 3.2.2 Descriptive Statistics
  - 3.2.3 Normal Distributions & Normality

- 3.2.4 Graphical Analysis
- 3.4 Data Collection Plan
- 3.5 Process Capability and Sigma Level
- 3.5 Measurement System Analysis
  - 3.5.1 Gage Repeatability & Reproducibility
- 3.6 Measure Tollgate Review

**IV. Analyze Phase**

- 4.1 Root Cause Analysis
- 4.2 Cause and Effect/ Fishbone Diagram
- 4.3 Root Cause Verification Matrix
- 4.4 Hypothesis Testing
  - 4.4.1 General Concepts & Goals of Hypothesis Testing
  - 4.4.2 Significance; Practical vs. Statistical
  - 4.4.3 Types of Hypothesis Test
- 4.5 Hypothesis Testing
  - 4.5.1 1 sample variance
  - 4.5.2 One Way ANOVA
  - 4.5.3 Mann-Whitney
  - 4.5.4 Kruskal-Wallis
  - 4.5.5 Mood's Median
  - 4.5.6 Friedman
  - 4.5.7 1 Sample Wilcoxon
  - 4.5.8 Chi-Square
  - 4.5.9 Correlation
  - 4.5.10 Multiple Linear Regression
- 4.6 Analyze Tollgate Review

**V. Improve Phase**

- 5.1 Solutions Generation Techniques
  - 5.1 Tree Diagram/ Mind Map
  - 5.1 Solutions Selection Matrix
- 5.2 Cost Benefit Analysis
- 5.3 Piloting a Solution
- 5.4 Planning Implementation
- 5.5 Documentation
- 5.6 Training Plan
- 5.7 Improve Tollgate Checklist

**VI. Control Phase**

- 6.1 Control Plan
- 6.2 Response Plan
- 6.3 Statistical Process Control (SPC)
  - 6.3.1 Data Collection for SPC
  - 6.3.2 I-MR Chart
  - 6.3.3 Xbar-R Chart
  - 6.3.4 Xbar-S Chart
  - 6.3.4 U Chart
  - 6.3.5 P Chart
  - 6.3.6 NP Chart
  - 6.3.7 c Chart
- 6.4 Visual Management
- 6.5 Poka Yoke
- 6.6 Control Tollgate Review

VII. Certification Requirements:

- 7.1 CLSSGB Online Certification Examination with at least 100 Exam Items and Passing Rate of 70%
- 7.2 CLSSGB Project Story Board per Trainee.

**Target Participants:**

- Graduates of any Bachelor's Degree – At least 1 year work/ business experience

**Contact Details:**

For further information, please contact:

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President, e<sup>2</sup> Consulting Inc.

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**Service Offerings:**

I. Academic and e-Learning Services

- Implementing Outcomes Based Education (OBE) for Higher Educational Institutions (HEIs)
- Strategic Planning for HEIs
- Preparing HEIs for Global/ National Quality Certification and Academic Program Accreditation
- e-Learning Services

II. Government & Business Services

- Productivity & Process Improvement
- Lean Six Sigma
- Systems Analysis
- Business/Performance Excellence
- ISO 9001:2015
- Strategic Planning
- Process Streamlining
- Design Thinking

**Registration & Exam Fees:**

- The early bird course registration fee is P10,000.00 for those who will submit their accomplished reservation form on or before April 10, 2021. Regular rate of P11,000.00 per enrollee applies beyond this period. This is inclusive of lecture & review materials, exam fee, ID, & certificate.
- No reservation/ advanced payment needed.
- Online payment of the registration fee shall be paid in full or installment within the 7-day course period to the following account:
  - Efficiency + Effectiveness (E2) Consulting Inc. - BPI Kamuning Branch CA #3140-0295-71 or
  - via GCASH to Delfin Jacob - 0917-824-1334
- The course has limited slots on a first-come first-served basis

**Reservation Form:**

YES, I will attend the Online Certified Lean Six Sigma Green Belt Training & Certification Course on May 8, 15, 22, 29, June 5, 12, 19, 2021

Full Name: \_\_\_\_\_

Position/ Profession: \_\_\_\_\_

School/ Company/Organization: \_\_\_\_\_

Cell Phone No.: \_\_\_\_\_

Email Address: \_\_\_\_\_

Signature: \_\_\_\_\_

Please accomplish this form, take a picture or scan, and send it through email at e2@e2consultinginc.com or thru <https://www.facebook.com/e2courses/>



**e<sup>2</sup> Consulting Inc.**  
**Efficiency + Effectiveness**



**International Accreditation**



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