



EZSigma Group Continuing Education Open Enrollment: Six Sigma Green Belt

*Become a leader in Continuous Improvement by enrolling with Canada's original source for
Lean & Six Sigma Certification programs.*

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Certification Grading: Training + Exam Pass + Successful Project
Registration Fee: \$2,995 + HST

I. Rationale:

Within the Six Sigma philosophy, a defect is regarded as anything which causes internal or external customer dissatisfaction or prevents any part of the process from performing flawlessly. The higher the Sigma level of a process, the lower the number of defects it produces.

II. Course Aims and Outcomes:

Aims

An EZSigma Six Sigma Green Belt is a leader of change who not only demonstrates an understanding of the Six Sigma philosophy but is also capable of successfully leading process improvement teams. This is accomplished by using the DMAIC (Define, Measure, Analyze, Improve, & Control) methodology while simultaneously applying the appropriate tools and methods that can enable “breakthrough” improvements.

Specific Learning Outcomes:

This course of study will include a detailed exploration of each phase of the DMAIC problem-solving methodology as well as all of the basic quality and analytical tools associated with the Six Sigma Green Belt body of knowledge. It is understood that participants will be a Certified Six Sigma Green Belt when they complete everything outlined in this program.

By the end of this course, participants will:

- ✓ Explain the Six Sigma approach and how process variation impacts process excellence
- ✓ Understand the importance of capturing and aligning with the voice of the customer (VOC)
- ✓ Describe the DMAIC as well as other key concepts and terms that are part of the Six Sigma methodology
- ✓ Understand and can construct basic Six Sigma charts

III. Format and Procedures:

This is a blended program therefore there are three components:

1. Online self-paced learning
 - a. Participants are required to complete a total of six online modules relating to Six Sigma along with supplemental readings through the EZSigma Quality Campus prior to attending the instructor-led training.
2. Instructor-led training
 - a. The instructor-led training is delivered via zoom and a webinar summarizing what was learned online and in-class will occur following the instructor-led training.
3. Certification

The final element of this program is Six Sigma Green Belt Certification. Once the training has been completed participants need to successfully complete the following:

1. **Completion of a Six Sigma training program.** Includes completing all online modules and attending all instructor-led training.
2. **Completion of the Certification Exam.** The Certification exam is available online through the EZSigma Quality Campus. This exam comprises of 50 to 60 multiple choice questions which are derived from the Six Sigma Green Belt Body of Knowledge. The pass mark for all Certification examinations is 70%. The exam is “open book” allowing you to access all the materials and tools that participants would normally have access to when leading Six Sigma projects.
3. **Completion of a Continuous Improvement Project.** A Project is defined as having followed the DMAIC (Define, Measure, Analyze, Improve, Control) life-cycle and will include relevant analyses such as Fishbone, Pareto, Hypothesis Tests, Regression etc. where applicable.

IV. Course Requirements:

1. Class attendance and participation policy: Participants are expected to attend all instructor-led training. In the case where the participant cannot attend all training days, a written request must be sent to EZSigma and alternate options will be made available to the participant.

2. Course readings:

- (a) Required: EZSigma Quality Campus online modules
- (b) Recommended: Articles listed within the EZSigma Quality Campus.

3. Assignments: Participants are expected to participate in both group and personal assignments during the instructor-led training.

V. Grading Procedures:

Online Modules: Post-module tests are for the benefit of the participant and results from these tests will have no effect upon their eligibility for Certification.



Certification: Participants must achieve a grade of 70% or above on the Certification exam for a 'pass' to be awarded. Should a grade of less than 70% be achieved, participants may rewrite the exam after a 30-day waiting period. Each subsequent attempt will incur an administrative fee of \$85 + applicable taxes.

VI. Academic Integrity

Each participant in this program is expected to abide by the generally recognized Code of Academic Integrity.

Therefore, any work submitted by a participant in this program for certification will be the participant's own work. [Optional: collaboration is allowed for the Certification project submission with special permission from the facilitator.]

Participants are encouraged to study together and to discuss information and concepts covered in lecture and the sections with other participants. Participants can give "consulting" help to or receive "consulting" help from each other.

VII. Inclusivity Statement

We understand that our clients represent a rich variety of backgrounds and perspectives. The EZSigma Group Continuing Education Department is committed to providing an atmosphere for learning that respects diversity. While working together to build this community we ask all clients to:

- share their unique experiences, values and beliefs
- be open to the views of others
- honor the uniqueness of their colleagues
- appreciate the opportunity that we have to learn from each other in this community
- value each other's opinions and communicate in a respectful manner
- keep confidential discussions that the community has of a personal (or professional) nature

VIII. Tentative Course Schedule: (May change to accommodate guest facilitators & participant needs)

Pre-Work: Online Modules within the EZSigma Quality Campus

- Six Sigma Introduction
- What is Statistics?
- Measure of Central Tendency
- Measures of Dispersion
- Continuous Probability Distributions: Normal Curve
- Introduction to Inferential Statistics

Note: Video selections from the 'Against All Odds' video series will be included as supplemental 'assignments' for the online modules however, only completion of the online modules are required for the program.

Instructor-led Training:

Section 1

DMAIC "Roadmap"



Types of Data
Population and Samples
Central tendency measures
Measures of dispersion
Descriptive statistics

Section 2

Histograms
Box plots
Normal distribution
Normality test
Scatter plots and correlation
Data Collection and Sampling
Measurement System Analysis
Gauge Repeatability & Reproducibility
Attribute Agreement Analysis

Section 3

Introduction to Statistical Process Control
Defects, Defectives and Measures of Yield
DPU, DPO, DPMO and Z
Capability Studies Using Continuous Data
Simple Linear Regression
Introduction to Hypothesis Testing

For further information on this resources and more, please contact EZSigma Group at:

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