

# PROFESSIONAL AND CONTINUING EDUCATION (NON-CREDIT)

## LEAN SIX SIGMA GREEN BELT CERTIFICATE

Lean Six Sigma is a combination of two popular continuous improvement methods—Lean and Six Sigma—that pave the way for operational excellence. It relies on a collaborative team effort to improve performance by systematically removing waste and reducing variation. The Westminster College Lean Six Sigma Blended Green Belt program will provide students with the knowledge and practical skills to become a Green Belt Practitioner. This blended program is very focused on getting students to translate the knowledge they gain through online learning and practice to real world skills and expertise. The skills transfer doesn't end there as students must complete a Lean Six Sigma online simulation project to earn their certification. This program is for those who are serious about getting a Lean Six Sigma Green Belt certification that is rigorous, relevant, flexible, and trusted in the marketplace.

Program Requirements:

- Completion of online training
- Two One on One online sessions with your virtual coach.
- Lean Six Sigma Online Simulation Project
- Passing Grade on Green Belt Crucible Test

After completing this program, students should be able to:

- Communicate using Lean Six Sigma concepts.
- Think about your organization as a collection of processes, with inputs that determine the output.
- Relate Lean Six Sigma concepts to the overall business mission and objectives.
- Use the concept of a Sigma Level to evaluate the capability of a process or organization.
- Understand and apply the five step DMAIC model as a framework to organize process improvement activity.
- Employ a wide range of process improvement techniques within the DMAIC model.
- Recognize the organizational factors that are necessary groundwork for a successful Lean Six Sigma effort.
- Employ your Six Sigma skills to lead a successful process improvement project delivering meaningful results to the organization.

This online component consists of eleven modules, including:

1. Introduction to Lean Six Sigma
2. Starting a Project and Leading Teams
3. Voice of the Customer
4. Mapping the Process
5. Measurements and Basic Statistics
6. Measurement Systems Analysis
7. Charting Process Behavior
8. Identifying Root Causes
9. Hypothesis Testing
10. Improve
11. Control

After completing all components of this program, totaling 240 clock hours, students should be able to:

- Communicate using Lean Six Sigma concepts.
- Think about your organization as a collection of processes, with inputs that determine the output.
- Relate Lean Six Sigma concepts to the overall business mission and objectives.
- Use the concept of a Sigma Level to evaluate the capability of a process or organization.
- Understand and apply the five step DMAIC model as a framework to organize process improvement activity.
- Employ a wide range of process improvement techniques, including Design of Experiments, within the DMAIC model.
- Recognize the organizational factors that are necessary groundwork for a successful Lean Six Sigma effort.
- Employ your Six Sigma skills to lead a successful process improvement project delivering meaningful results to the organization.

Courses are awarded as Continuing Education Units or CEUs. CEUs are generally not transferable to other institutions. CEUs to be awarded: 24. Successful completion of certificate program makes participants eligible to receive their Lean Six Sigma Green Belt certificate (proctored, nationally normed, criterion-referenced certification exam will be given as part of the course).

## Course Description

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PACE	31	Lean Six Sigma Green Belt Certification	24 CEUs
Lean Six Sigma is a combination of two popular continuous improvement methods—Lean and Six Sigma—that pave the way for operational excellence. It relies on a collaborative team effort to improve performance by systematically removing waste and reducing variation. The Lean Six Sigma Green Belt is an essential member of every Lean Six Sigma project team. Whether you're tasked with leading your own projects or are looking to expand your education, Westminster's Lean Six Sigma Green Belt course will increase your knowledge base and capability to apply the DMAIC methodology and Lean methods. Green Belt training represents a reduction in time and material required for Black Belt training, so many professionals choose to start their process improvement career at this level. It's a quicker entry into the industry and a way to explore your comfort in the role before making a larger commitment.			