

Lean Six Sigma: Black Belt Certificate Program

Academic Plan as of spring 2025

Program Description:

Prepare to lead change initiatives and strategic planning sessions at the executive level of your organization. This project-based curriculum teaches the elements of Lean, Six Sigma, and Theory of Constraints through simulations, case studies, and student interactions for the most effective learning experience. You will learn and practice the skills necessary to implement statistical process control (SPC), facilitate and use various strategic planning tools and methods, optimize machine up-time rates, alleviate organizational bottlenecks, calculate various financial metrics, and develop the ability to lead change initiatives in any organization. Please plan on 10-20 hours of reading, study, and homework to be completed prior to the course and during the instructional week beyond classroom hours. You will be required to lead discussions and presentations.

Program Learning Outcomes:

By the end of the Lean Six Sigma: Black Belt Certificate Program, students will be able to:

- Have increased ability to solve problems, improve processes and facilitate teams
- Guide teams through a structured problem-solving methodology
- Map, analyze and improve work process
- Facilitate process improvement (Kaizen) teams
- Communicate impact Lean Six Sigma has on organizational objectives
- Prepare to pass Lean Six Sigma: Black Belt certification exam

Prerequisites and Admissions Requirements:

Lean Six Sigma: Green Belt (LN1100)

Program Requirements:

To earn the Lean Six Sigma: Black Belt Certificate you must successfully complete the required course Lean Six Sigma: Black Belt (LN1101) for a total of 26.0 contact hours (2.6 CEUs).