



Lean Six Sigma Green Belt Certificate Program

Summer 2019

► ctme.caltech.edu/lssgb

Register today – Seats limited

Format: 5-Day, Public, Instructor-led

Upcoming Dates: Jun 22/Jul 13, 27/Aug 10, 24

Location: Caltech Campus, Pasadena, CA

Program Objectives

Build your capabilities to apply Lean Six Sigma using the DMAIC (Define, Measure, Analyze, Improve, Control) analytical methods and mindsets for critical thinking. Securing Green Belt Certification can help you master your career as a vital problem solver and valued team member.

Caltech’s accelerated 5-day format provides the key skills needed by integrating Lean methodologies in an interactive workshop setting, guided by Certified Master Black Belt instructors. The Green Belt program focuses on recognizing which projects fit Lean Six Sigma, which principles and practices to employ, and how to best lead teams in high-stakes performance improvement.

Learning Objectives

You will learn through practical examples of performance issues in real-world situations, how to use analytical frameworks, conduct quantitative and qualitative analysis, communicate with confidence, and instill new behaviors into your management style.

Learnings include:

- Defining appropriate improvement projects best addressed by Lean and Six Sigma approaches
- Using DMAIC for data-driven improvements
- Mapping value streams to understand context
- Defining problems, goals, and target states clearly
- Identifying and validating root causes of problems
- Crafting creative solutions to eliminate waste and improve processes and their sustainability

- Monitoring the improvements to ensure continued value realization
- Recognizing the competencies and skills required to be an effective LSS project leader
- Identifying LSS project tasks and estimate both duration and costs associated with each task
- Communicating findings and progress on LSS projects with clear logic and cogent presentations

Participants

This program is for quality-demanding professionals desiring Green Belt credentials who don’t have the time to engage in longer learning programs.

Its laser-focus on key elements is ideal for those seeking structured approaches to problem-solving, performance improvement, Lean operating models, and quality-driven products and services. Green Belt is the starting point for business analysts, business model designers, operations strategists, process designers, engineers of all disciplines, consultants, customer-facing product teams, manufacturing technicians, quality teams, and performance reporting technologists.

Lean Six Sigma capabilities are in high demand in energy, bio/pharma, medical device and diagnostics, manufacturing, electronics, automotive, and aerospace.

To customize this program for your organization, contact a program advisor. 626.395.4042
ctme@caltech.edu

Why CTME

Leaders who aspire to innovate and execute come to Caltech's Center for Technology and Management Education (CTME). Here, you will do more than attend a class. You will develop new mindsets, technology skills, and leadership capacity to master the complex issues that challenge your organization today.

Instructors with real industry insight—Each of our educators bring decades of real world experience and leadership from roles in research, engineering, commercialization, manufacturing, operations and executive accountability of technology-driven organizations and government agencies.

Action-learning is more than just experiential. We facilitate real impact through small groups working on actual problems which, with Caltech coaching and structure, grows individuals, teams, and organizations to adapt to new challenges.

Concentrated customization is how we distinctively prepare curricula and content. We work with clients to understand their challenges and capability needs for 21st century talent. Integrating your specific context, cases, and methods with the proprietary approaches of Caltech and its affiliates, makes CTME your best learning partner.

Global delivery is how we scale experiences and results. Going beyond online programs, we convene rotating cohorts through their company's international locations. Learners value guided facilitation and mastery where personal interactions are more productive.

About Caltech

Caltech is a world-renowned science and engineering institute that marshals some of the world's brightest minds and most innovative tools to address fundamental scientific questions and pressing societal challenges. Caltech prizes excellence and ambition. The contributions of Caltech's faculty and alumni have earned national and international recognition, including 38 Nobel Prizes. The Institute manages the Jet Propulsion Laboratory (JPL) for NASA.

Connect with CTME

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INSTRUCTORS

Chris Christensen, PMP, specializes in project management, quality improvement, product development, futures research, and strategic planning. He assists manufacturing and service organizations in forecasting their future, developing successful products, and developing and deploying practical strategic plans. He is a certified Six Sigma Black Belt, Certified Quality Engineer, and Certified Quality Manager.

With over 40 years of experience, he has consulted with 3M, Dow Chemical, Aerospace Corporation, Baxter, Boeing, Delco, Disney, Los Angeles Times, Raytheon, and Toshiba, among others. Mr. Christensen holds an MBA from Pepperdine, an MS in systems engineering from West Coast University.

Rick Hefner, PhD, specializes in systems development and maintenance; project management; Lean Six Sigma; process improvement, technology transfer; and risk management. His experience spans over 35 years.

Dr. Hefner has worked with companies in the communications, electronics, and health sciences, including Applied Physics Laboratory, Ares Management, Boeing, DRS Technologies, Herbalife, Honeywell, Jet Propulsion Laboratory, John Deere, L-3 WESCAM, Maytag, Motorola, AT&T, Schlumberger, SoCal Edison, St. Jude Medical, U.S. Navy, and Xerox. Dr. Hefner earned his engineering PhD from UCLA and has an MS and BS in engineering from Purdue University.

Carol Jacoby, PhD, specializes in mission analysis, systems engineering, decision analysis, and mathematical techniques. She has 28 years of experience in systems engineering at Hughes Electronics and Rockwell International. She led Hughes' Mission Analysis Center of Excellence in developing complex systems of systems for defense, transportation, and other areas. She was one of the first people to apply systems engineering to highway transportation.

Dr. Jacoby is an internationally recognized research mathematician, with several recent publications in peer-reviewed journals and a forthcoming book written for advanced graduate students and researchers. She earned her PhD at the University of California, Irvine, her MS at Northeastern University.

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Programs, dates, fees, and instructors are subject to change.

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