

Grow your career.
Level up for the future.

Applied Graduate Certificate in Lean Six Sigma

Master Efficiency. Drive Impact.
Lead with Lean Six Sigma.



Schulich
School of Business
Executive Education

YORK U



Applied Graduate Certificate in Lean Six Sigma

What is Lean? Put simply, Lean methodology is a powerhouse strategy for ensuring consistent quality and eliminating obstacles in process flows. It's a surefire way of eliminating waste and streamlining processes.

Advance your career with Schulich ExecEd's Applied Graduate Certificate in Lean Six Sigma. Enrol in the Green Belt module, the Black Belt module, or complete the full program to build expertise in process improvement, waste reduction, and operational excellence. Gain industry-recognized credentials and real-world skills through live virtual sessions. Elevate your problem-solving and leadership abilities—your path to Lean Six Sigma mastery starts here!



24 two-hour sessions over 6 months



Book this program [online](#)



Applied Graduate Certificate in Lean Six Sigma

Unlock the secrets of efficiency, optimization, and process improvement with this unique Applied Graduate Certificate program. Designed for forward-thinking leaders eager to streamline processes, our program offers a deep dive into the tools, techniques, and strategies that have revolutionized industries.

Why Lean Methodology? In today's fast-paced and competitive business landscape, organizations must continuously strive for excellence and efficiency. Lean provides a proven framework for achieving operational excellence by eliminating waste, maximizing efficiency, and fostering a culture of continuous improvement.



24 two-hour sessions over 6 months



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Program Highlight



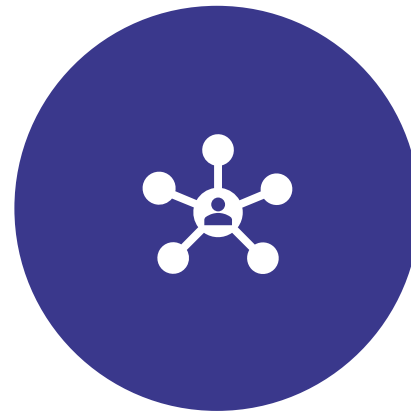
48 Hours of Study

Rich learning in just 48 hours of study over 6 months.



Flexible Schedule

Complete the full program for an Applied Graduate Certificate or just take the modules you need.



Network

Connect with and learn from peers, fellow project managers and leaders across a wide range of sectors, industries and professions.



Digital Badge

Receive an authentic digital badge from Canada's top-ranked business school.

Pathway:

Applied Graduate Certificate in Lean Six Sigma





Great content, presented in an easy-to-understand format with enough challenges/activities to help really bring the message home.

- **R. Kornblum**, Walmart

I started to implement a Lean Six Sigma project in my company while I was taking this training and the original outcome is \$300K in costs reductions. I strongly recommend this program for all companies and individuals seeking excellence.

- **H. Foppoli**, Northbridge Consultant



Program Content:

Lean Six Sigma – Green Belt



Lean Fundamentals: History, Principles, and Concepts

Explore the origins of Lean, its core principles, and key concepts. Participants will gain insight into the historical development of Lean methodologies and learn how to:

- Apply Lean principles to enhance efficiency
- Identify and eliminate waste in various processes
- Drive continuous improvement and operational excellence

3M: Muda, Mura, and Muri

Delve into the 3M framework of Lean: Muda (waste), Mura (unevenness), and Muri (overburden). Participants will learn how to:

- Identify and eliminate inefficiencies
- Streamline processes for greater efficiency
- Enhance productivity by reducing waste and imbalance
- Create a more balanced and sustainable workflow

Program Content:

Lean Six Sigma – Green Belt



Strategic Planning and Execution

Explore strategic planning methodologies, including Hoshin Kanri, Obeya, and the Daily Management System (DMS). Participants will learn how to:

- Align organizational goals effectively
- Foster collaboration across teams
- Implement continuous improvement practices
- Drive strategic success through structured execution

Workplace Organization: 5S Leading to PDCA

Learn the 5S methodology for workplace organization and its connection to the PDCA (Plan-Do-Check-Act) cycle. Participants will discover how to:

- Create a clean, efficient, and organized workspace
- Enhance productivity and reduce waste through 5S principles
- Continuously improve processes using systematic evaluation and adjustment

Program Content:

Lean Six Sigma – Green Belt



Value Stream Mapping and Flows

Explore Value Stream Mapping (VSM) and its role in visualizing and optimizing workflows. Participants will learn how to:

- Identify value-adding and non-value-adding activities
- Streamline processes to eliminate waste
- Enhance overall efficiency by improving the flow of materials and information

Complete Toolbox for Continuous Improvement

Explore a comprehensive set of Lean techniques, including Poka-Yoke, SMED, Work Standardization, Kanban, Kaizen, Workflow Board, and SQDCP Board. Participants will learn how to:

- Implement these tools to enhance efficiency
- Reduce errors and operational disruptions
- Foster a culture of continuous improvement in their processes

Program Content:

Lean Six Sigma – Green Belt



Lean: A Cultural Approach

Lean is more than just a set of tools—it's a mindset. In this session, we will explore the cultural aspects of Lean, including its core values of respect, teamwork, relationships, and employee engagement. Participants will learn how continuous improvement is driven by culture, not just tools.

Six Sigma Fundamentals

Explore the fundamentals of Six Sigma, including its history and key methodologies:

- DMAIC (Define, Measure, Analyze, Improve, Control)
- DFSS (Design for Six Sigma)
- DCDV (Define, Characterize, Design, Verify)

Program Content:

Lean Six Sigma – Green Belt



Define & Measure: Where Every Project Begins

This session focuses on the defining and measuring phases of a project. Participants will learn how to:

- Identify project scope
- Prepare problem and objective statements
- Capture the Voice of the Customer (VoX)
- Understand the process within the organizational context
- Establish operational definitions
- Determine key metrics for effective measurement

Program Content:

Lean Six Sigma – Black Belt



Analyze: Data Crunching at Its Best

This session focuses on analytical tools for understanding and solving problems. Participants will learn how to use techniques such as:

- Root Cause Analysis – Identify the underlying causes of issues
- Pareto Charts – Prioritize problems based on impact
- Fishbone Diagrams – Visualize potential causes of process inefficiencies
- FMEA (Failure Modes and Effects Analysis) – Assess risks and prevent failures

By mastering these tools, participants will be able to identify, prioritize, and develop effective solutions for process improvement.

Improve: Where Creativity Comes Into Play

This session focuses on the improvement phase of DMAIC. Participants will learn how to:

- Identify sources of variation to develop effective solutions
- Conduct pilot tests to validate improvements
- Establish tolerances for the new process
- Enhance process efficiency and achieve sustainable results

Program Content:

Lean Six Sigma – Black Belt



Control: Sustaining Improvements and Monitoring Performance

This session focuses on the control phase of Six Sigma. Participants will learn how to:

- Develop effective training and communication plans
- Standardize processes to ensure consistency
- Monitor performance to sustain improvements
- Effectively close projects for long-term success
- Foster a culture of continuous improvement

AI, ESG, and Continuous Improvement

Explore the intersection of Artificial Intelligence (AI), Environmental, Social, and Governance (ESG) principles, and continuous improvement. Participants will learn how AI can:

- Drive sustainable practices and environmental responsibility
- Enhance ESG initiatives through data-driven insights
- Support ongoing improvements in organizational processes
- Optimize efficiency while aligning with ethical and sustainability goals

Program Content:

Lean Six Sigma – Black Belt



Strategic Alignment to Drive Resiliency

Explore the importance of strategic alignment in continuous improvement projects. Participants will learn how to:

- Align improvement initiatives with organizational goals
- Ensure every action supports the overall business strategy
- Achieve cohesive and effective execution of business objectives
- Build resiliency through structured and goal-driven improvements

Project Selection to Reach Strategic Goals

This session focuses on criteria and methodologies for selecting the right projects. Participants will learn how to:

- Evaluate potential projects based on strategic alignment
- Assess resource availability and feasibility
- Analyze the potential impact on business objectives
- Ensure selected projects effectively contribute to organizational success

Program Content:

Lean Six Sigma – Black Belt



Change Management and Team Leadership

We will explore the principles of change management and effective team leadership. Participants will learn strategies to manage organizational change, foster a positive team culture, and lead their teams through transitions smoothly, ensuring successful project management.

Measure: Measurement System Analysis and Process Capability

Explore the principles of change management and effective team leadership. Participants will learn how to:

- Manage organizational change with structured strategies
- Foster a positive and adaptive team culture
- Lead teams smoothly through transitions
- Ensure successful project execution and long-term sustainability

Program Content:

Lean Six Sigma – Black Belt



Analyze: Tools to Understand the Problem

This session focuses on the analysis phase of Six Sigma. Participants will learn how to:

- Define clear and measurable objectives
- Calculate Defects Per Million Opportunities (DPMO)
- Assess current process capability
- Identify areas for improvement to enhance overall process efficiency

Analyze: Graphical Data

This session focuses on graphical data analysis. Participants will learn how to use:

- Box Plots – Visualize data distribution and variability
- Probability Plots – Assess data normality and statistical fit
- Time Series Charts – Identify trends and patterns over time
- Scatter Plots – Examine relationships between variables

These tools will help participants effectively interpret data, uncover patterns, and solve complex problems.

Program Content:

Lean Six Sigma – Black Belt



Analyze: Hypothesis Testing, Regression, and ANOVA

This session focuses on advanced statistical analysis techniques. Participants will learn how to:

- Conduct hypothesis testing to validate assumptions
- Use regression analysis to identify relationships between variables
- Apply ANOVA (Analysis of Variance) to compare group means
- Leverage data-driven insights for better decision-making and process improvement

Analyze: Design of Experiment (DOE)

This session focuses on the Design of Experiment (DOE) methodology. Participants will learn how to:

- Plan, conduct, and analyze controlled experiments
- Identify key factors affecting process performance
- Optimize processes using experimental data
- Make data-driven decisions for continuous improvement

Program Content:

Lean Six Sigma – Black Belt



Improve: Solutions Leading to Implementation

This session focuses on evaluating and selecting the best solutions for process improvement. Participants will learn how to:

- Assess and choose the most effective improvement strategies
- Develop detailed implementation plans
- Ensure seamless integration of solutions into operations
- Achieve optimal results and sustain long-term improvements

Control: Charts, Variation, and Progress

This session focuses on control charts and understanding process variation. Participants will learn how to:

- Use control charts to monitor process performance
- Identify and analyze causes of variation
- Ensure consistent quality and stability in operations
- Maintain progress and drive continuous improvement

Program Content:

Lean Six Sigma – Black Belt



Project Closure and Translation

This session focuses on effectively closing projects and translating outcomes into actionable insights. Participants will learn how to:

- Ensure all project objectives are met
- Document and communicate key findings
- Translate outcomes into organization-wide improvements
- Capture lessons learned for future project success

Who Will Benefit



Mid-Career Leaders

Individuals in leadership roles across virtually every industry, functional role and responsibility—including operations and coordination—will prove their Lean Six Sigma expertise and develop practical techniques to significantly reduce organizational waste, drive continuous improvement and process excellence. Alumni of the program are poised to level up their careers and achieve more senior positions.

Completion Benefits

After completing this program, you'll receive an authentic digital badge from the top-ranked business school in Canada that employers will recognize.

As more and more companies look for candidates with specific skills, this badge on your CV will be a credible assurance of your achievements and expertise, allowing the right roles to find you faster.



Applied Graduate Certificate

You've completed a series of unique, high-level modules, which constitutes an Applied Graduate Certificate.

Why a Certificate at Schulich ExecEd?

There will no longer be a single transition from graduation to work in one's life.

Because few of us have the same job for life, we constantly have to re-invent ourselves, learn new skills and adapt to the changing marketplace and business environment. Today's professionals and executives must be able to quickly develop and fine-tune personal business skills to adapt and grow.

We are #1 Business School in the country

We have the privilege of being ranked #1 and teaching top students from around the world.

Our Program is Unique

Distinction from growing competition in the job market.

We Provide a Combination of Skill Specialization & Range

Deepen your current skills and acquire new ones.



About Schulich ExecEd

At Schulich ExecEd, the professional development arm of the world class Schulich School of Business, all our programs are non-degree, mid-career acclaimed qualification that employers recognize and that you can add to your CV.

We provide:

- Short programs building an individual business skill have industry recognized credentials for that skill
- Certificate programs build a wider skill set with a number of key skills
- Masters Certificates are an intense dive into Leadership, Management or specific Business skillsets. This is our highest mid-career professional development business school certification

Key stats:

- Ranked #1 business school in Canada
- Ranked #12 in global MBA ranking
- Educated over 80,000 professionals across the world.
- Delivered over 4,000 programs virtually and in-person
- 96% of our graduates used knowledge or skills from the program on the job
- 87% of our graduates reported improved job performance
- Worked with over 500 companies worldwide

Over 450 leading faculty in areas of management, leadership, communications, finance, marketing, business development and strategy





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