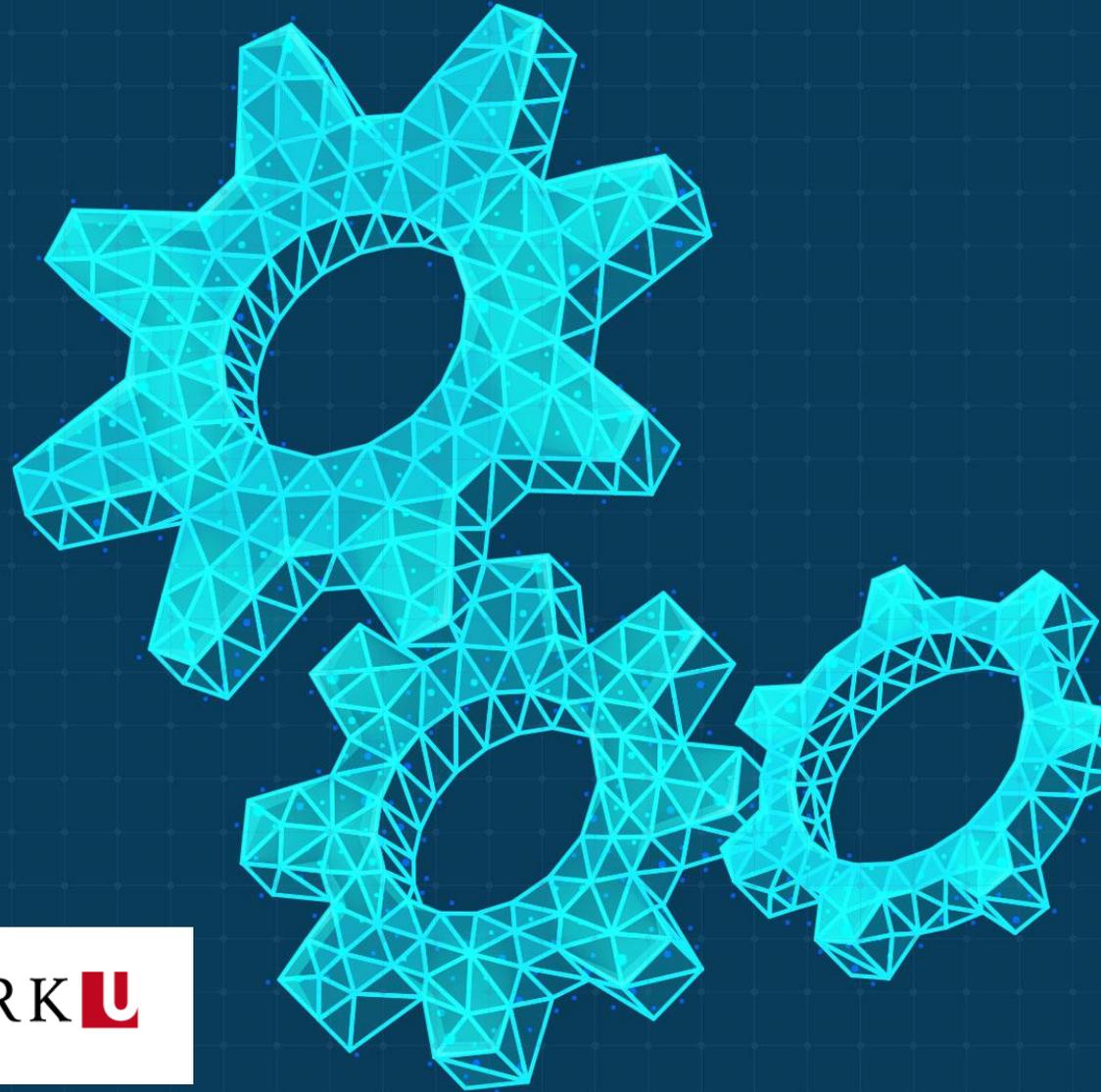


Grow your career.
Level up for the future.

Schulich-Lassonde Certificate in Project Management for Engineers



LASSONDE
PROFESSIONAL
DEVELOPMENT

LASSONDE
SCHOOL OF ENGINEERING

YORK U



Schulich
School of Business
Executive Education Centre

YORK U

Schulich-Lassonde Certificate in Project Management for Engineers

This new program is developed for engineers and technologists to gain project management skills needed to successfully lead your projects and advance your career.

The Schulich-Lassonde Certificate in Project Management for Engineers is a nine-day course offered fully online over 10 weeks. Each module is led by a different professional and highly regarded instructor, who will bring their own unique experience to the learning environment.

 **Mastery in 7 modules**

 **Book this course online: seec.online/pmforengineers**



LASSONDE
PROFESSIONAL
DEVELOPMENT

LASSONDE
SCHOOL OF ENGINEERING

YORK U



Schulich
School of Business
Executive Education Centre

YORK U

Grow your career.
Level up for the future.

Program Overview

Project Management skills are a critical core competency for most engineers and technologists. While they have always been an essential part of large-scale civil engineering projects, they are increasingly required as part of the daily work routine: designing new products, implementing new delivery systems, or integrating new technologies into an organization.

In the past, most project management courses have been designed for dedicated project managers working on large scale projects over several years. This new course is designed in partnership between Schulich ExecEd and Lassonde Professional Development to exclusively target engineers and technologists in mind.

Based on Schulich ExecEd's Master's Certificate in Project Management, Canada's longest running and most successful management training program, which has prepared over 13,000 project managers with in-depth project management training and fully prepared them to pass the PMP® Exam.

This course will help you:

- Develop the skills to increase the likelihood that small and large technology projects are delivered on time and on budget
- Gain exposure to real-life challenges and issues involved in managing technology projects
- Prepare for PMP® exam and certification

LASSONDE
PROFESSIONAL
DEVELOPMENT

LASSONDE
SCHOOL OF ENGINEERING

YORK U



Schulich
School of Business
Executive Education Centre

YORK U

Program Highlights



9 Days to Completion

Nine-day course offered over 10 weeks



Virtual Classroom

Course is live, instructor-led and online



Designed for Engineers and Technologists

Gain project management skills with a course designed with engineers and technologists in mind



Network

Engage with engineering and technology professionals in an experiential learning environment

seec.online/pmforengineers

LASSONDE
PROFESSIONAL
DEVELOPMENT

LASSONDE
SCHOOL OF ENGINEERING

YORK U



Schulich
School of Business
Executive Education Centre

YORK U

Grow your career.
Level up for the future.

Learning Outcomes

- ✔ Understand the five main stages of the project management process: and how they interact
- ✔ Be able to use the eight main project management documents to develop a project management plan
- ✔ Discuss how constraints lead to project management trade-offs between; time, cost and scope
- ✔ Identify and mitigate project (technological, operational, financial) risks
- ✔ Understand the challenges of leading and managing technical project teams
- ✔ Use the basic tools of project budgets and financial control
- ✔ Understand how ethical considerations and stakeholder engagement influence the project.
- ✔ Assess the key challenges of developing and implementing a real-life project plan

Course Modules

1 DAY
Module 1

Program Introduction

1 DAY
Module 2

Project Management Foundation

2 DAYS
Module 3

Scheduling and Control on
Engineering Projects

1 DAY
Module 4

The Human-Side of Project
Management in an Engineering
Environment

2 DAYS
Module 5

Managing Risk in Engineering and
Technical Projects

1 DAY
Module 6

Our Project Environment and
Implementing Your Projects

1 DAY
Module 7

The Project Management /
Engineering Ecosystem

Program Faculty



David Barrett

David Barrett is the President of Solutions Network Ltd., Group Conference Director with Diversified Business Communications Canada and Program Director at The Schulich Executive Education Centre, Schulich School of Business at York University. He is a professional speaker, regular blogger, podcast host, author of eight books and project management education adviser to numerous universities in Canada. David's career includes the creation and direction of a project management conference business called ProjectWorld ProjectSummit, a training company, a software development firm, a speaker bureau, a project management portal called ProjectTimes.com and a project management event series called ProjectTalks. Most recently, David has launched a project management video web site called ProjectBites.com



Andrew Maxwell

Andrew Maxwell, MBA, PEng, is Bergeron Chair In Technology Entrepreneurship and Director of Bergeron Entrepreneurs in Science and Technology. He received his PhD in Technology Entrepreneurship from the University of Waterloo in 2011, winning the Academy of Management's Heizer Award for the top PhD in his field. He is also a journal editor for the *Journal of Business Venturing*. While at Waterloo, Andrew taught the capstone technology entrepreneurship class, helping numerous technology entrepreneurs get their start. Prior to that Andrew worked for three years in the technology transfer office of the University of Toronto (also teaching at Rotman and UTM). Andrew's work experience includes founding four technology companies and working in in two technology multinationals. He has an MBA from London Business School, and a BSc (Eng) in Electrical Engineering, from Imperial College London.

Program Content

Module 1

Program Introduction (1 day)

- Program introduction and module objectives review
- The topics are contextualized according to traditional waterfall methodologies and the increasingly relevant Agile approach
- While most of the material and examples are directly focused on the engineering profession, three modules speak to broader professional applications:
 - The challenges of managing projects in a technology environment
 - The challenges of implementing and communicating projects to a broad range of stakeholders
 - The increasing role of societal and ethical expectations in engineering projects and how to address them

Module 2

Project Management Foundation (1 day)

- Addresses the five core stages of the project management process: Initiation, Planning, Execution, Monitoring/Control, and Closure, and the relationship between them
- Introduces key documents in the project management process: Stakeholder Analysis, Project Charter, Budget, Work Breakdown Structure (WBS), Role and Responsibility Assignment, Project Communications Plan, Risk Matrix and Project Schedule
- Reviews the three critical elements to every project during the start-up phase
- Assesses common project management obstacles in the engineering field
- Summarizes online engineering management tools

Program Content

Module 3

Scheduling and Control on Engineering Projects (2 days)

- Presents a planning foundation and implementation of both simple and complex technical projects
- Guides on how to form a project team, scope projects and manage within a matrix environment
- Develops a detailed, high-level project plan, including activity-based network diagrams and critical paths
- Analyzes the roles and opportunities in using waterfall and Agile methodologies
- Compares the challenges facing short, informal projects and large-scale, multi-year complex projects
- Introduces the course project (which must be completed to attain the course credentials)

Module 4

The Human-Side of Project Management in an Engineering Environment (1 day)

- Discusses teamwork, how to align team objectives, allocate responsibilities and manage performance
- Defines project roles and assesses how team member's individual problem-solving styles can be harnessed to improve project outcomes
- Focuses on how project-management tools can improve team communication and improve project outcomes
- Addresses the challenges of change management for those involved in and affected by project implementation

Program Content

Module 5

Managing Risk in Engineering and Technical Projects (2 days)

- Presents risk identification and analysis tools used to mitigate technology, implementation, operational, supply chain and financial risks
- Develops risk mitigation strategies and contingency planning
- Focuses on the development of a project risk management frameworks, informal and formal risk response planning and embedding risk management into the project plan

Module 6

Our Project Environment and How We Get Work Done (1 day)

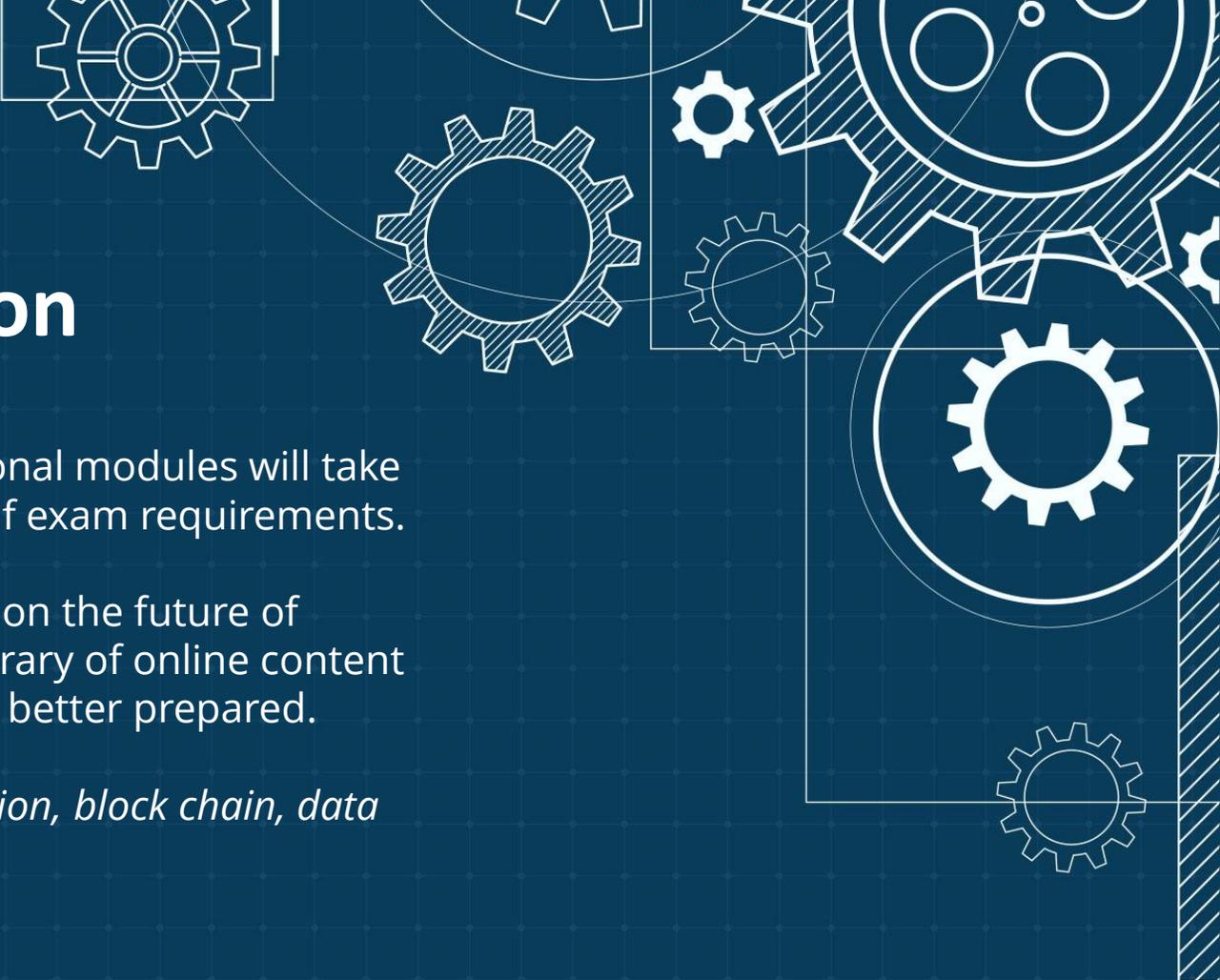
- Invites guests to share real life project management case studies and the lessons learned from them
- Gives program participants opportunities to share their own projects and get feedback from experts and participants
- Concludes on how project managers get work done, in both formal and informal teams

Program Content

Module 7

The Project Management/Engineering Ecosystem (1 day)

- Illustrates the multiple challenges of engineering project management and includes several guests who will share their experiences and answer participant questions
- Includes insights into the project life-cycle in engineering and the increasing role of project management in the workplace
- Participants choose between a half day where the focus is on project management in new product development or the role of project management in innovation and deployment of new technologies
- Discusses the ethical considerations around project implementation, especially as specific projects impact inclusivity, sustainability and equity



Online PMP Exam Preparation

Designed especially for this program, these 2- hour optional modules will take the PMP Exam candidates through an extensive review of exam requirements.

Exclusive access to online videos, interviews and articles on the future of Project Management Participants will gain access to a library of online content discussing the future of our industry and how we can be better prepared.

Topics will include: artificial Intelligence, digital transformation, block chain, data analytics and more.

Participant Profile

The Schulich-Lassonde Certificate in Project Management for Engineers is ideal for:

- Early to mid-career engineers and technologists who currently have some existing project management responsibilities or are about to assume them
- Leaders with their own engineering practices, or technology ventures
- Those working in engineering consulting or a large company / organization looking to develop new products or introduce new technologies to improve performance
- The course complies with the requirements of engineering professional development hours (90), and prepares participants for PMP certification (if they wish)

seec.online/pmforengineers



LASSONDE
PROFESSIONAL
DEVELOPMENT

LASSONDE
SCHOOL OF ENGINEERING

YORK U



Schulich
School of Business
Executive Education Centre

YORK U



Schulich School of Business At York University Executive Education Centre

500-222 Bay Street. Toronto, Ontario M5K 1K2
1 800.667.9380 | execedinfo@schulich.yorku.ca
seec.schulich.yorku.ca

Lassonde Professional Development

Bergeron Centre For Engineering Excellence, York University,
Room 215
11 Arboretum Lane, 4700 Keele Street, Toronto, Ontario,
Canada, M3J 1P3



SchulichExecEd



SchulichExecEd



@SchulichExecEd

