

Professional Certificate in Circular Economy, Carbon Mitigation, and Leading Transition

McMaster Certificates of Completion



W Booth School of
Engineering Practice
and Technology



Leading Transition

Canada's transition to a circular, climate positive economy depends on courageous leaders from business, government and civil society. New competencies and innovative models of leadership are needed to solve the world's biggest transition issues – climate change, resource depletion, social and ecological justice, technology and artificial intelligence. The new mindset expands our focus from efficiency to effectiveness; from crisis to opportunity.

What will I learn:

This course will apply both an organizational development and personal leadership lens to explore the drivers of transition, **opportunities to innovate and build competitiveness**. Through active assessment, you will map your own leadership and organizational needs against established leadership models to **strategize, plan, and communicate an effective transitional strategy**.

Who should attend:

- Environment Professionals
- Sustainability Professionals
- Engineers/Technologists
- Technical Managers
- Operations Managers
- Product Designers

Course Presentations

Corporate Leadership Case Study

- Implementing a low-carbon, circular transition in a corporate environment
- Corporate leadership approaches for sustainable development

Technology Start-Up Leadership Case Study

- Creating value by addressing climate challenges with technology start-ups
- Low-carbon technology development and commercialization strategies

Personal Leadership Case Study

- Leading transition to a low-carbon, circular economy through personal commitment
- Values-based strategic action to reduce GHG emissions while growing a business

Case Study on Corporate Capabilities & Culture

- Panel discussion with organization leading transition
- Industry leaders currently implementing low-carbon strategies

Course Workshops

Understanding Context

- Political, economic, social, technical, legal and ecological drivers
- Understanding 'one planet' constraints to growth

Establishing Purpose, Vision & Framing a Strategy

- Managing Risk and creating new opportunities for value creation
- Building a product, market and financial case

Building Capabilities & Culture

- Applying different schools of thought to evaluate case study outcomes
- Understand challenges and repeatability within your organizations

Tools & Communication Strategies for Transition

- Establishing and connecting organizational drivers to UN SDGs
- Measuring internal and external stakeholders' priorities

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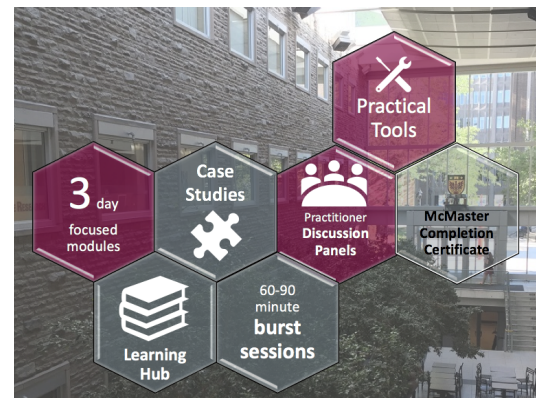
Why a conference-style professional program?

Professionals like yourself need the latest knowledge, practical examples and tools in order to advance your organization. We understand that you don't have weeks or month at a time to dedicate to each subject matter, but need to advance your knowledge.

Connect with a different kind of learning program. This professional certificate program delivers a comprehensive, subject-focused program in a 3-day, conference-style format with academic grounding, guest speakers, and application. You will gain foundational knowledge and apply it through case studies and practice exercises alongside talks from numerous leaders in the private and public sectors.

Benefits of a conference-style professional certificate:

- Burst sessions of 60-90 minutes per topic
- Focused delivery over three days
- Latest case studies of successes and challenges
- Guest speakers applying current practices
- Networking & collaboration opportunities
- Application/exercises with practical tools
- Cost-effective modular approach
- Achieve a McMaster University Certificate



Our goal is to arm you with the knowledge and tools to create value in your organization as well as ongoing access to resources and a network of professionals.

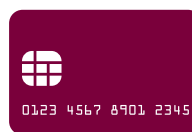


Duration: 20 hours/course

In order to meet the time constraints of professionals, this program is offered in 20 hour segments running over a period of three days.

Courses

Circular Economy
Carbon Mitigation
Leading Transition



Cost: \$2000 per course

Participants can complete individual courses based on their professional interest and will earn a **McMaster Certificate of Completion** for each unique course in **Circular Economy, Carbon Mitigation, and/or Leading Transition.**



Prerequisites

Participants should have a broad understanding of engineering or science principles at a college or university level.

Please [contact the Program Lead](#) if you have specific questions about background knowledge required to maximize your benefits from the program.

[Enrol Today](#)