

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

McMaster Certificates of Completion



W Booth School of  
Engineering Practice  
and Technology



## Carbon Mitigation Certificate

Climate change strategies are an integral part of every organization and for professionals addressing the changing landscape of regulatory frameworks, stakeholder pressures, and economic drivers – foresight, strategic planning, and advancements in innovative technologies are required. Implementing climate change strategies that not only address these pressures but actually reduce your organizations carbon footprint requires the tools to integrate an effective carbon mitigation plan.

### What will I learn:

This course will highlight the legislative landscape, provide practical case studies of successful transitions and technological examples, help you **identify carbon mitigation practices that would fit your organization**, and **practical carbon mitigation prioritization tools** that can be applied at different levels of organizational complexity and maturity.

### Who should attend:

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

### Course Presentations

#### Regulatory Systems

- Overview of current mechanisms from taxation to cap-and-trade
- Understanding the Canadian landscape across provincial jurisdictions

#### Carbon Offset Markets

- Case studies of reduction projects through offsetting and insetting
- Strategic approach to carbon mitigation through offset markets

#### Carbon Capture Utilization and Storage

- Carbon Capture Utilization and Storage (CCUS) in a Canadian context
- Technology advancements and commercial readiness of CCUS

#### Leadership in a Carbon-Restricted Economy

- Fundamentals of leadership in a carbon-restricted economy
- Case studies in leadership in a carbon-restricted economy

### Course Workshops

#### Measuring for Carbon Reductions

- Identifying strategies in early stages of project design for carbon reduction
- Case evaluation from design to operation of carbon mitigation

#### Lifecycle Assessment Process

- Fundamentals of lifecycle assessment for effective carbon management
- Case studies of effective LCA applications in leading organizations

#### Carbon Footprinting

- Effective and efficient development of an organization's carbon footprint
- Strategic utilization of mitigation tools, offsets, insets and CCUS

#### Implementing Carbon Strategies

- Mapping carbon mitigation and economic factors for strategic decisions
- Developing and communicating a target-based climate change strategy

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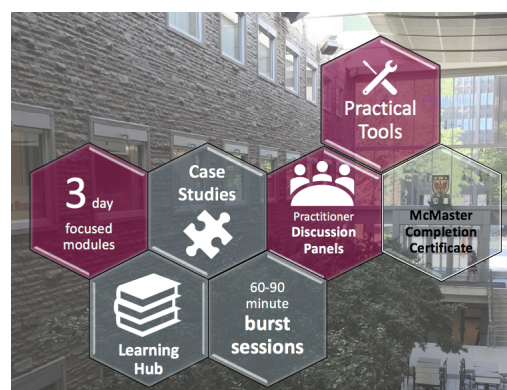
## Why a conference-style professional program?

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](#)