

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

McMaster Certificates of Completion



W Booth School of
Engineering Practice
and Technology



Circular Economy

Circular economy is an emerging approach to product design, manufacturing processes, and environmental management. Moving away from our traditional linear model of “take, make, waste” to a systematic approach of material reuse, resource circularity, and the elimination of wasted resources. Organizations around the world are adopting circular economy principles to facilitate a transition caused by economic, environmental, and resource pressures.

What will I learn:

This course will teach you the foundational circular economy principles, **help you identify circular economy practices that would fit your organization**, investigate practical case studies of successful transitions to different circular economy models, and practical circular economy 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

Program Presentations

What is Circular Economy?

- Develop an understanding of circular economy approaches
- Understanding practical benefits and limitations of various approaches

Application of Circularity Economy

- Application of circular economy models in business and manufacturing
- Where to focus: biomimicry, by-products' circularity; zero waste

Circular Economy Resources

- Emerging tools, practices and concepts
- Circular economy resources for various type of organizational challenges

Circular Economy Leadership Panel

- Discussion with organizations implementing circular economy principles
- Industry leaders currently working to implement circular economy

Program Workshops

Biomimicry

- Understand how to evaluate change to a product, process or system level
- Learn practical tools to adopt biomimicry principles in process or design

Circularity & Sustainability Metrics

- Measuring business sustainability in a manner the CFO understands
- Practical tools to evaluate sustainability at a project and company level

Circular Economy Case Studies

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

Leadership in a Material-Restricted Economy

- Fundamentals of leadership in a material-restricted economy
- Tools needed to lead organization through a circular economy transition

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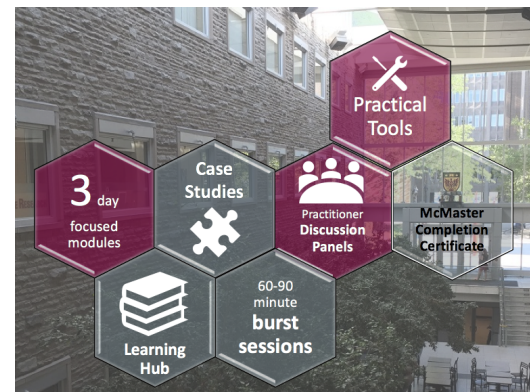
Why a conference-style professional program?

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 months 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.

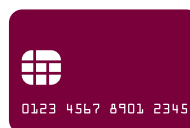


Duration: 20 hours/course

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](#)