

Welcome to ICTC's WIL Digital Green Supply Chain

ICTC's WIL Digital is an innovative Work Integrated Learning (WIL) program that helps students gain insight and skills to advance learning and meaningful work experience.

COURSE OVERVIEW

This course is designed to help the next generation of the Green Supply Chain workforce. This course is an integral part of our growing ecosystem that continues to support the demands of the growing marketplace. Green (sustainable) Supply Chain addresses current societal, business, and ecological needs, without compromising long-term environmental health or social-economic prosperity. Green supply chain systems prioritize the efficient use of resources, minimize greenhouse gas emissions, reduce harmful ecological impacts, responsibly manage the scope of all life products, reduce production and distribution of hazardous materials, and strive to provide energy-efficient and competitive supply chain solutions. Infrastructure, and systems.

The WIL Digital program has used Facebook elements to help students understand the importance of digital literacy and the importance of digital skills in the workplace. The program also includes a focus on the environmental impact of supply chain systems, and the importance of digital skills in the workplace.

Review your visit for the Launch and Discovery networking event <https://www.facebook.com/ictc.ctic/wil-digital-launch-and-discovery-event/>

TARGETED AUDIENCE

This is a learning course will target a broad audience of postsecondary Work Integrated Learning (WIL) students currently in a substantial work placement through ICTC's WIL Digital.

Students from the following programs can also benefit from this course: Manufacturing, Supply Chain, Logistics, Environmental science, Engineering (e.g., environmental engineering, mechanical engineering, materials engineering, etc.) Business, Marketing, Computer science, Data science, Data analytics.

However, as the green supply chain sector is diverse in nature, students from various other related backgrounds (e.g., including the humanities) are encouraged to take this learning course to learn how their expertise can be applied to the sector. With fundamental knowledge about supply chains and sustainability will be beneficial to a wide range of the sector.

LEARNING OBJECTIVES

Upon completion of this learning you will be able to:

- Compare and contrast green supply chain technologies and assessment practices with traditional ones, focusing on the manufacturing sector.
- Analyze the environmental impact of supply chain practices and explain how a more environmentally friendly approach can be beneficial.
- Recognize and describe the business dimension of green supply chain practices.
- Recognize issues that are related to the environmental impact of supply chain practices.
- Recognize potential career opportunities in the field of green supply chain management.

The course includes eight modules that cover a wide range of topics:

[View Course Overview Slides](#), [WIL Digital WIL 1](#), [WIL Digital WIL 2](#)

Module	Topics	Learning Objectives
Introduction to Green Supply Chain	<ul style="list-style-type: none"> What does it mean to be green? What is a supply chain? What are the environmental impacts of supply chains? How can we make supply chains greener? How can we improve the performance of supply chains? 	<ul style="list-style-type: none"> Define a definition of "green" that aligns with the current definition. Describe the environmental impact of supply chains. Identify major green supply chain practices. Design the system of law and regulations that will support and enable the transition to green supply chains.
Environmental Impacts of Supply Chains	<ul style="list-style-type: none"> How do we quantify environmental impact? How do we measure the impact of supply chains? How do we measure the impact of supply chains? How do we measure the impact of supply chains? How do we measure the impact of supply chains? How do we measure the impact of supply chains? 	<ul style="list-style-type: none"> Use different methods to quantify the environmental impact of supply chains. Identify major green supply chain practices. Identify the environmental impact of supply chains.
Green Supply Chain	<ul style="list-style-type: none"> How do we measure the impact of supply chains? How do we measure the impact of supply chains? How do we measure the impact of supply chains? How do we measure the impact of supply chains? How do we measure the impact of supply chains? 	<ul style="list-style-type: none"> Identify major green supply chain practices. Identify the environmental impact of supply chains. Identify the environmental impact of supply chains.

TOPIC OVERVIEW

Watch this introductory video for a more in-depth overview of what this course offers.



Lesson 1.3: What Kinds of Environmental Impacts Can Supply Chains Cause?

START COURSE



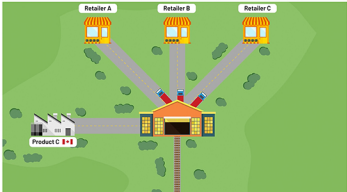
As you've learned so far in this module, we currently stand at a crossroads for global learning. The goods that industrial and commercial activities produce are increasingly the greenhouse effect and warming our planet more than ever before.

In this lesson, we'll take a closer look at supply chains to see how and why each of its stages contributes to greenhouse gases using the greenhouse gas (GHG) protocol as a lens.

- Introduction to the GHG Protocol
- GHG Protocol - Scope 1, 2 and 3
- Adding GHG together

Lesson 2.3 Podcast: Introducing Plattbeck's Supply Chain

In this podcast, an expert introduces you to his company's supply chain.



Lesson 3.1: How Is Technology Used to Reduce the Environmental Impact of Supply Chains?

START COURSE



As you will find out in this module, the four following technology categories are used in supply chains to optimize green performance (meaning reduce greenhouse gas emissions as much as possible).

Click on each card to learn a bit more about the technology categories you will explore in this module.

Equipment

- Newer versions of equipment (manufacturing, handling, etc.) tend to be more energy efficient.
- Alternatives to fossil-fuel-powered equipment enable important emission reductions.



In this first lesson of the module, we will concentrate on advanced equipment and automation technologies. Looking at how they can be applied to green supply chains to optimize their activities and limit their environmental impact.

The 10 Rs Methodology

Currently, there is no official continuous improvement methodology looking at green improvements and circular economy concepts which will explore further in the following modules. There is, however, an approach called the 10 Rs that proposes ten tips for reducing the environmental impact of a supply chain and transforming it into a circular economy.

These tips are divided into three categories. Click on the category below to discover the 10 Rs.

REDUCE WASTE/REDUCE USE OF PRODUCTS	EXTEND LIFESPAN OF PRODUCTS AND PARTS	REUSE, REPAIR OR RECYCLE MATERIAL
<p>R1 - Reuse Find a way for consumers to reuse discarded products that are still in good enough shape to fulfill their intended function.</p> <p>R2 - Repair Do repairs and maintenance for defective products so that they can again fulfill their function.</p> <p>R3 - Refurbish Restore old products so they can function as well as new ones.</p> <p>R4 - Remanufacture Use parts of a returned product to manufacture new products serving the same function.</p> <p>R5 - Repurpose Use a discarded product, or parts of it, to fulfill a new function.</p>		