



Lean and Green Sustainability Training Program



www.leadingedgegroup.com



info@leadingedgegroup.com

OVERVIEW AND OBJECTIVES

This **3-day** instructor-led (in-person or virtual) training program is tailored for Lean practitioners and develops an understanding of sustainability principles, drivers and benefits; the opportunities of combining Lean and Green principles and the tools to identify and realize opportunities for sustainability and environmental efficiency.

The program develops proficiency in the integration of Lean management and sustainability principles to achieve savings and benefits across the environmental, social and governance (ESG) aspects of an organization.



Gain familiarity with the language of sustainability



Identify sustainability principles, drivers and benefits



Recognize and articulate the effectiveness of Lean and Green sustainability



Integrate sustainability principles and applications with Lean management



Expand and adapt Lean tools and practices to identify and address ESG challenges and improvement opportunities

KEY TOPICS

The Language of Sustainability

Sustainability Principles and Drivers

Integrating Lean and Green

Lean and Green Benefits and Opportunities

Challenges and Change Management

Sustainability Information and Data



Lean and Green Value Stream Mapping

Lean Tools for Sustainability

Lean and Green Sustainability Teams

Leading Lean and Green Sustainability Projects

Kaizen Burst Opportunities: Detailed Overview

	Material Picker	Scanner	Technician
Environmental 	<ul style="list-style-type: none"> Replace all bulbs with LED Install Lighting Sensors Work with Suppliers to request changes to packaging used for Raw Materials - less packaging & 100% recyclable Review raw material supplier practices and policies with regard to biodiversity protection 	<ul style="list-style-type: none"> Replace all bulbs with LED Install Lighting Sensors Replace scanner to more energy-efficient model 	<ul style="list-style-type: none"> Improve waste segregation facilities new colour-coded signage
Social 	<ul style="list-style-type: none"> Complete Employee Engagement Program - identify and resolve issues and concerns Improve Induction and Refresher Training 	<ul style="list-style-type: none"> Complete Employee Engagement Program - identify and resolve issues and concerns 	<ul style="list-style-type: none"> Improve Induction and Refresher Training Improved Standards

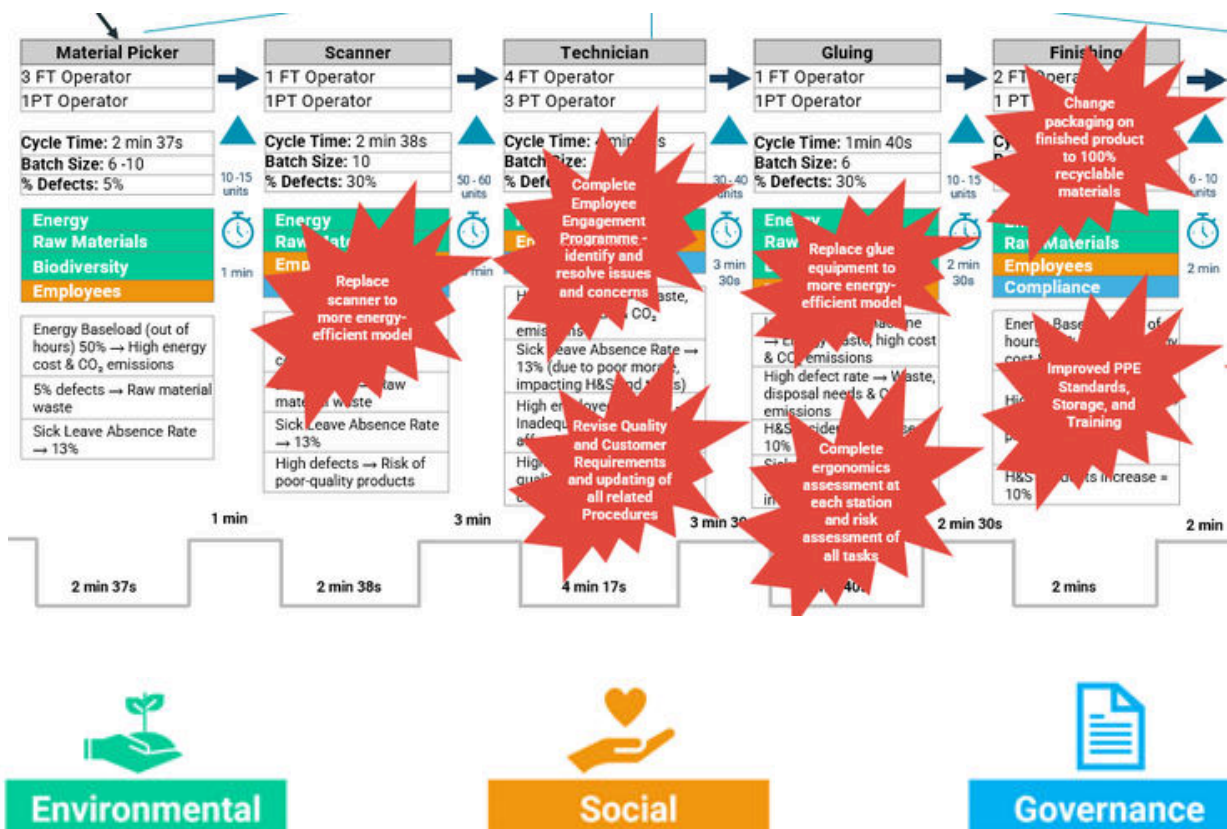
Lean Practices	Waste Reduction	Energy Efficiency	Water Conservation
Kaizen	High	Medium	Medium
5S	High	Medium	Low
Poka Yoke	High	Medium	Medium
Layout Improvements	Medium	Medium	Low
TPM	Medium	High	Medium
Standard Work & Visual Management	Medium	Medium	Low
JIT & Continuous Flow	High	High	Medium
Pull Systems/Kanban	High	High	Medium

PRACTICAL APPLICATION

The training explores the 7 sustainability inputs to any process, division or organization; the impacts of these inputs and how to identify and realize the opportunities to achieve efficiencies in each.

Participants are guided through a Lean and Green value stream mapping case study and will complete a practical exercise focused on:

- Defining the sustainability inputs to complete current state
- Conducting current state analysis to establish improvement opportunities across the environmental, social and governance aspects of the process
- Applying relevant Lean tools to realize and sustain the opportunities



ASSESSMENT AND CERTIFICATION

Through successfully completing in-class exercises and an assessment review at the end of training, participants will receive a certificate from Leading Edge Group's academic partner, Ontario Tech University (OTU).

With over 9,800 undergraduate and graduate students enrolled across 75 programs, delivered by exceptional faculty, OTU promotes social engagement; fosters critical thinking and integrates outcomes-based learning experiences inside and outside the classroom.



FACULTY



FIONA O'LOUGHLIN

Fiona is a seasoned sustainability professional with over 23 years of experience. Her expertise spans developing environmental management systems, delivering ISO 14001 training and leading Sustainable Energy Action Plans.

Fiona has also coordinated regional energy efficiency programs and large-scale energy awareness campaigns. Her work includes energy performance and environmental reporting, along with environmental and health and safety training. She is an SGS Environmental Auditor, ISO 14001 certified and holds an M.Sc. and B.Sc. in Environmental Science.



JOE O'CALLAGHAN

In an industry career spanning 23 years, Joe has held various product development and technical leadership roles across a number of multinational companies.

A qualified Lean Black Belt practitioner with a keen interest in sustainability, Joe has connected the reduction of waste to being more environmentally conscientious. He has also lectured extensively with University College Cork (UCC). He was Programme Director for UCC's Diploma in Food Manufacturing Management from 2016 to 2024 and continues to deliver a variety of Lean and Six Sigma related modules. Joe holds a first class honours degree in Electrical Engineering from UCC and an MBA from the Open University.



JANINE LEFORT

With over two decades of experience in supply chain, global sourcing and operations optimization, Janine brings a unique perspective to sustainable business practices. Her expertise in Lean has helped organizations eliminate waste, optimize processes and reduce environmental impact, while maintaining business performance.

As a PhD candidate in Environmental Applied Science and Management at Toronto Metropolitan University, her research focuses on innovative applications of life cycle analysis and Lean Green methodologies.

A certified Project Management Professional (PMP) and Lean Black Belt, Janine combines technical expertise with a passionate commitment to sustainable business practices.

TESTIMONIAL



Chad Laux PhD

- Internationally recognized expert and leader in Lean and Six Sigma
- Associate Professor, Graduate Education Chair, and Co-Lead of Purdue University's Sustainable Community
- Over 200 published works including the Award-winning publication: "Lean Sustainability: A Pathway to a Circular Economy".
- Recipient of the American Society Crosby Medal, winner of the International Academy for Quality Walter E. Masing Book Prize, and a nominee for the Shingo Institute Research Award



I cannot recommend enough the Sustainable Lean training program offered by Leading Edge Group. This comprehensive 3-day workshop seamlessly integrates Sustainability concepts with traditional Lean management practices, making it an invaluable resource for any Lean practitioner committed to environmental stewardship.

The program's structure is both engaging and practical, featuring a blend of insightful case studies, hands-on assignments, and a robust toolkit designed to equip participants with the skills needed to drive sustainable improvements within their organizations. The focus on embedding environmental sustainability into continuous improvement processes is particularly commendable, as it addresses the urgent need for sustainable practices in today's business landscape.

Key highlights of the training include:

In-depth exploration of Sustainable Lean tools and techniques: The program covers essential topics such as value stream mapping for sustainability, JIT and kanban for sustainability, and the development of a comprehensive sustainable Lean plan.

Practical application: Participants are encouraged to apply Lean tools to identify and enhance the environmental impacts of their improvement initiatives, ensuring that the learning is directly applicable to real-world scenarios.

The instructor-led sessions, whether in-person or virtual, are expertly delivered, ensuring that all participants, regardless of their prior knowledge, can grasp and implement the concepts effectively. By the end of the program, I felt well-prepared to lead sustainable Lean initiatives and contribute meaningfully to my organization's environmental objectives.

Overall, the Sustainable Lean training program is a must-attend for any professional looking to enhance their Lean management skills, while making a positive impact on the environment. Leading Edge Group has truly set the standard for excellence in this field.

CONTACT US



Leading Edge Group **North America**


 60 St. Clair Avenue East, Suite 805,
Toronto, ON, M4T 1N5, Canada

 +1 (416) 637 5074

 info@leadingedgegroup.com



Leading Edge Group **Rest of the World**

 Rossleague, Cobh, Co. Cork
Ireland, P24 AD90

 +353 (21) 4855863

 info@leadingedgegroup.com