Green Transportation

ICTC’s WIL Digital Green Transportation e-Learning course provides an intermediate understanding of green (sustainable) transportation. The course provides an overview of the main technologies, processes, and considerations for implementing green transportation practices. The course concludes with a case study which students develop a business case for sustainable methods in transportation industries.

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<th>Modules</th>
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<th>Learning Objectives</th>
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| Module 1 | Introducing Net Zero | • Define net zero and how it is calculated.  
• List traditional forms of transportation and their impacts.  
• Summarize the changes needed at the business level.  
• Highlight the challenges businesses face in reducing their GHG emissions. |
| Module 2 | Introduction to Green Transportation | • Identify types of green transportation and their environmental impact.  
• List types of in-use and future-use forms of green transportation.  
• Identify the power of green transportation on the economy and environment while relating this back to net zero |
| Module 3 | Electric Vehicle Technologies | • Recognize electric vehicle technologies.  
• Summarize how electric vehicle technologies contribute to environmental sustainability and reduce emissions.  
• Summarize the role of batteries in electric cars and reflect on the environmental impact of these batteries.  
• List the different skill sets and technical knowledge required to build and operate a domestic EV ecosystem |
| Module 4 | Sustainable Transportation | • Identify and compare different types of transportation strategies.  
• Explain how sustainable transportation can be impacted by urban planning and design.  
• Summarize technological trends that have the potential to shape urban transportation systems. |
| Module 5 | Transportation Environmental Impact | • Identify how different sectors contribute to GHG emissions.  
• Highlight the environmental impact that occurs from the infrastructure, operations, and waste generation in each sector.  
• Summarize how transitioning to green transportation can mitigate the environmental impact in these sectors. |

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<th>Module 6</th>
<th>The Business of Transportation</th>
<th>Module 7</th>
<th>Career Opportunities in Green Transportation</th>
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<td>• Intermodal Freight and Passenger Transportation</td>
<td>• Describe the key steps and priorities of common intermodal transportation</td>
<td>• Job Opportunities within Green Transportation</td>
<td>• Identify the roles available in the green transportation industry.</td>
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<td>• Economic Factors in Transportation</td>
<td>• Identify different types of intermodal transportation and summarize their movement within a supply chain or logistics network</td>
<td>• Building a Career in Green Transportation</td>
<td>• Recognize the opportunities where green transportation can help achieve net zero.</td>
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<td>• Canadian National Trade &amp; Competitiveness</td>
<td>• Summarize the economic factors that influence the transportation industry and the national trade and competitiveness for the Canadian economy.</td>
<td>• What’s Next?</td>
<td>• Identify goals and actions for starting a career in green transportation with suggestions.</td>
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Padlet Discussion & Assessment

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