**Extension Activity**

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| **Activity Title:** Waste Management Careers | **Duration:** Multiple periods  |
| **Objective:** |
| In this activity, students will learn about and research careers in the waste management industry. Students will select a career option and research what is involved in the role, why the role is important and what skills, attributes and experiences are needed for the role. There are many different roles in waste management and students are encouraged to think about the possibility of working or studying in this fiend in the future. This activity works well after completing the * [https://liberty360.ca/PeelRegion/Organics/v3.html](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fliberty360.ca%2FPeelRegion%2FOrganics%2Fv3.html&data=04%7C01%7Cjennifer.andrade%40peelregion.ca%7Cec8d28f1c1aa4514a50608d9eca22e00%7C356f99f39d8647a182033b41b1cb0c68%7C0%7C0%7C637801003615937841%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=uh7xQ6FP8Jfq%2BHden8xLgxY8EfO%2FXVi1ZaWGLBeRXCA%3D&reserved=0)
* [https://liberty360.ca/PeelRegion/WasteTransfer/v2.html](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fliberty360.ca%2FPeelRegion%2FWasteTransfer%2Fv2.html&data=04%7C01%7Cjennifer.andrade%40peelregion.ca%7Cec8d28f1c1aa4514a50608d9eca22e00%7C356f99f39d8647a182033b41b1cb0c68%7C0%7C0%7C637801003615937841%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=5TJBJa3lZOLflTwLirPWEatxE9jOn0u%2BwGmG3Ibwv%2Fg%3D&reserved=0)
* [https://liberty360.ca/PeelRegion/IntegratedWaste/v2.html](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fliberty360.ca%2FPeelRegion%2FIntegratedWaste%2Fv2.html&data=04%7C01%7Cjennifer.andrade%40peelregion.ca%7Cec8d28f1c1aa4514a50608d9eca22e00%7C356f99f39d8647a182033b41b1cb0c68%7C0%7C0%7C637801003615937841%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=1mjeeVVqsjXjisM3ED9BbBvQ4LVcULQbsfFoq1MBwWY%3D&reserved=0)

**link to the tours.*** Suitable for Grade 9-12
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| **Activity Set-up** |
| * Have students watch and read one or more of the following videos and staff highlights:
	+ [What happens to your recycling - YouTube](https://www.youtube.com/watch?app=desktop&v=bTMrgdy1dHY)
	+ [A tour of Peel's recycling facility - YouTube](https://www.youtube.com/watch?app=desktop&v=SN0fWps-5UA)
	+ [Waste - Community for Life Annual Report - Region of Peel (peelregion.ca)](https://peelregion.ca/strategicplan/community-for-life/waste.asp)
	+ [Recycle Right - Region of Peel (peelregion.ca)](https://peelregion.ca/recycleright/)
	+ [Organics - Region of Peel (peelregion.ca)](https://peelregion.ca/waste/organics)
	+ [Life cycle of a banana in the Region of Peel - YouTube](https://www.youtube.com/watch?v=4vV5tn4gNNQ)
	+ [Waste bin repair service - People of Peel - Region of Peel (peelregion.ca)](https://peelregion.ca/people/whitney.asp)
	+ [Elio - People of Peel - Region of Peel (peelregion.ca)](https://peelregion.ca/people/elio.asp)
	+ [The summer job that kickstarted a career - People of Peel (peelregion.ca)](https://peelregion.ca/people/frank.asp)
	+ [Boosting Ontario Blue Box Programs | TVO.org](https://www.tvo.org/video/boosting-ontario-blue-box-programs)
* As a group, brainstorm professional waste careers that the students may be aware of using the discussion starters below.
* Have students select a role or career to research and learn more about. You can assign roles or students can select a role that is interesting to them. Some resources that may be useful starting point for research are:

**Background Information:*** Careers in Waste Management are dynamic and exciting and offer individuals the opportunity to support their local community and provide an essential service for residents. If you enjoy problem solving, working in a team setting, and are looking for a career with a future and excellent pay and benefits, then a career in waste management may be for you!
	+ Region of Peel - **Community for Life** wants to strive on Living, Thriving and Leading to improve people’s lives, build communities that are integrated, safe and improve service and confidence.
	+ Regional Values – define how we work together and drive our daily interactions and decisions. We are **empowered** to make a difference. We are all **leaders** in the work we do. We pursue and embrace **purposeful change**, we are **genuine** and **transparent,** we **care** about and **support** everyone’s well-being and success, we find and **implement** solutions **together** and we provide excellent **customer service** every time
* The Region of Peel has one facility (Material Recovery Facility) that treats and processes recycling, organics, and waste. There are also 6 Community Recycling Centres in Peel that treat household hazardous waste, garbage, recycling, and reusable items.
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| **Class Discussion** |
| * What kind of educational background or skills do you think you might need for a career in waste management? Read the following statements with the class, and have students reflect.
	+ Do you enjoy problem solving?
	+ Do you like math, science, geography?
	+ Are you motivated to help the environment?
	+ Are you interested in working with a team that is dynamic and is always changing?
	+ Do you enjoy working outside and working with your hands?
	+ Are you interested in working in your community and providing an essential service?
	+ Do you enjoy being creative and inspiring others to make positive changes with waste?
	+ Do you enjoy writing and public speaking?
	+ Do you enjoy teaching your peers and family members on environmental topics?
	+ Do you feel empowered to make purposeful change in waste management?
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| **Suggested Waste Professional Careers:** |
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| **Professional Careers** | **Short Description**  |
| Director of Waste (Local Municipalities) | Development of recycling programs, Management of waste facilities, Forecasts future needs and decisions, Presents to Council, Provides recommendations for Waste programs |
| Project Manager (Waste Infrastructure) | Reports and investigates, analyze studies (Groundwater, Air Modeling, Soils, Traffic, Human Health & Ecological Risk Assessment), Obtain land use permits, Project budget management reporting  |
| Program Manager (Asset Management and State of Good Repair) | Manages the asset management and long-term state of good repair programs which includes all physical assets of the Waste Management Division (building and process equipment assets), Consults with internal and external stakeholders, develops capital plans to maintain facilities in appropriate state of good repair |
| Assistant Technical Analyst (Waste Processing) | Conducts various inbound, residue and marketed material audits used to facilitate Material Recovery Facility operational contracts, assess recycling program performance and impact of material at the facility |
| Technical Analyst (Environmental Education) | Compile, analyze, and monitor data to assess the performance and effectiveness of waste education programs, Facilitate in-class presentations and facility tours for elementary and secondary audience  |
| Team Lead | Manage Contractor Performance, Implement Health and Safety procedures, Ensure excellent customer service for Peel residents  |
| Team Lean (Waste Processing) | Analyzes Material Recovery Facility operational and financial data to assess the performance of the facility and operator, Compiles and analyzes inbound, residue and marketed material audit data to facilitate operational contract, assess recycling program performance and impact of material at the facility |
| By-Law - Municipal Law Enforcement Officer | Provide quality customer service and respond to requests and resident complaints regarding waste collection, Educate customers and promote all waste management programs, Provide input into new collection routs, identify operational problems and recommend solutions, Ensure that residents are in compliance with waste collection by-laws 35-2015, Instruction and give guidance to contractors, drivers and supervisors, Ensure compliance with Ontario Health & Safety Act |
| Coordinator Finance (Waste Processing) | Create and reconcile all 3rd party waste transactions, Ensure excellent customer service with vendors  |
| Foreperson, Waste Operations | Hire, train, supervise, evaluate, discipline, and terminate employees, Responsible for the effective and efficient operation of the Community Recycling Centres, Assign, schedule and supervise the day-to-day activities of the operations, Oversee the safe operations, security and maintenance of all vehicles, equipment, and buildings |
| Operator (Household Hazardous Waste) | Responsible for the safe handling and storage of HHW to minimize detrimental effects on people and environment, Educate the public about answering questions pertaining to HHW and other waste management programs and initiatives  |
| Waste Collection Driver | Operates vehicle in accordance with Waste Management Safety and Life Critical Rules, Occupational Health & Safety and Ministry of Transportation requirements as well as local municipal, provincial, and federal laws, Works closely with Route Managers to improve route efficiencies and identify best practices, Notifies Route Manager of any incidents, accidents, injuries, or property damage, follows route assignments as directed and completes end-of-day documentation and the check-out process |
| Teacher | Foster environmental literacy and awareness to students, provide learning opportunities for students to learn about Waste Management (recycling, organics, garbage), Develop powerful critical inquiries and tasks rooted in environmental issues  |

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| **Conclusion:** |
| * Have students share their findings with the class (presentation, career profile, class discussion, role play, mock interviews, report).
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