

Midwestern Ontario Regional High School Presentation Plan

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Organization: Green Jobs Strategy

Date: February 7, 2011

Grade Level: 10

Target Demographic

The target demographic at the high school presentation is the government mandated grade 10 careers class (GLC20) and may be extended to a larger group size (e.g.: class, grade, entire school) as deemed appropriate by the Principal and School Board.

Subject(s):

- Green Job Definition
- Green Job Titles (World of Work Map)
- Green Training and Education

Duration: 35 to 70 minutes

Description:

Students will learn about what green jobs are, how to find them and how to become qualified for these jobs.

Objective

The objective of the visit to Midwestern Ontario high schools is to:

1. Generate awareness and interest in the green jobs sector to ensure access to post secondary education programs and courses for green jobs of the future.

Presenter Material:

- Presentation
- Candy for Participation Incentive

Presentation Equipment:

- Projector
- Laptop
- Whiteboard/chalkboard (to project onto)
- Whiteboard Marker/Chalk

Prerequisites

Students should have their student personal assessment plan completed. If the personal assessment plan is not completed, they should have reviewed the components of the plan.

Procedure

2 minutes	1. Brief introduction of presenter(s) and the Midwestern Ontario Regional Green Jobs Strategy.
10 minutes	2. Icebreaker Activity: What are your interests? <ul style="list-style-type: none">- Have the students individually write down three careers that they are considering. (1 minute)- As a group sort the jobs discussed into two columns “Green” and “not green”. (5 minutes)- As a large group, discuss the lists and findings. (4 minutes)
10 minutes	3. Green Your Vision <ul style="list-style-type: none">- Video – “What is Green?” (5 minutes)- Discussion – What jobs do you think of as “Green Careers”? Has it changed from before? (2 minutes)- Video – Green Careers – what and why? (3 minutes)<ul style="list-style-type: none">- New technology, new ways to be efficient-
5 minutes	4. Sustainability <ul style="list-style-type: none">- Sustainability is like a stool – if you remove one leg it collapses *unsustainable* (1 minute)- More detail on the three legs of Sustainability (2 minutes)- Discussion - Why sustainability? Birth rate is increasing faster than death rate. What does this mean for you and me? (2 minutes)
9 minutes	5. Show me the \$ (a.k.a. where are the green jobs?) <ul style="list-style-type: none">- Think about the jobs you wrote down earlier. Where is the opportunity for you? (1 minute)- Video - Devry University (3 minutes)<ul style="list-style-type: none">- There is a shift towards a greener perspective.- Companies are adding green practices to their existing business and requiring new green skills from their workforce.- Business - Sustainability management – an emerging discipline related to resource conservation, pollution prevention, corporate sustainability<ul style="list-style-type: none">- <i>Operations Specialist (planning, directing coordinating business practices that are operationally and environmentally sound)</i>- <i>Marketing manager (determining and executing product pricing/channels/promotions in an environmentally conscious way)</i>- Technology - Renewable energy – a growing field related to creating, transmitting, storing renewable energy sources<ul style="list-style-type: none">- Electronics technician (develop longer-lasting components for electrical equipment)- Technical project manager (coordinating and supervising schedules and budgets for green-minded engineering projects)- Discussion – any opportunities identified? (5 minutes - optional)
10 minutes	6. Natural Environment <ul style="list-style-type: none">- Natural Resource Management (biology, ecology, earth sciences, chemistry)- VIDEO: Safety Officer - Hazardous Waste Management, Restoring the Land (3 minutes)<ul style="list-style-type: none">- Soil screening to ensure the environment isn’t contaminated- Keep workers safe from contamination and to keep contamination in the hot zone.- Environmental Science (air, water, land, wildlife, fish, forest)- VIDEO: Farm Manager - Sustainable Agriculture (3 minutes)<ul style="list-style-type: none">- Organize crop rotation, labour management, coordinate packing, logistics. Sell to local markets and offer home delivery (farmfresh.com)- VIDEO: Civil Engineer - Water Management (3 minutes)<ul style="list-style-type: none">- Maintain and build dams, and levys. Design new reservoirs.

6 minutes	<p>7. Power Infrastructure & Smart Grid</p> <ul style="list-style-type: none"> - Transmission – move electricity from one region to another - Distribution – distribute electricity to end users - Power Generation – renewable, clean energy - Consumption Management – real time assessment of power usage - VIDEO: Power – Clean Energy (3 minutes) <ul style="list-style-type: none"> - Civil engineers design and create ecologically sustainable projects of the future. - VIDEO: Solar Installer (2 minutes)
5 minutes	<p>8. Information Technology</p> <ul style="list-style-type: none"> - Communications Technology - Computers (hardware, data centres, network systems, software, internet) - VIDEO: Recycling – E-waste Collector (3 minutes)
7 minutes	<p>9. Built Environment</p> <ul style="list-style-type: none"> - Buildings (design, retrofitting, operation, construction) - VIDEO: Green Architecture (3 minutes) - Transportation (infrastructure for automobiles, rail, ports, air, freight) - VIDEO: Mass Transit (3 minutes)
7 minutes	<p>10. Creating Demand</p> <ul style="list-style-type: none"> - Educate, inspire, motivate, persuade (law, finance, policy, regulation, certification) - VIDEO: Environmental Justice (3 minutes) - Shape the green economy (move others to take greener actions) - VIDEO: Marketing Manager for Solar Panels (3 minutes) - Services (use green products and locations to provide services and experiences to other businesses and individuals)
7 minutes	<p>11. Manufacturing Cycle</p> <ul style="list-style-type: none"> - Change the process → Innovation, Research & Development
10 minutes (optional)	<p>12. Next Steps for Your Green Career</p> <ul style="list-style-type: none"> - Can leave behind for teacher to go over students with.