

A FACILITATOR'S GUIDE TO



Growing Responsible Environmental Employees Now!



Sustainability 101 Work Group Members

Ti Anderson Workforce Development Specialist, Region I, Office of Job Corps, DOL

Kristen Conroy, Environmental Education Coordinator, U.S. EPA

Cynthia Greene, Energy Team Leader, US EPA Region I, Office of Ecosystem Protection

Robert Guillemain, Environmental Protection Spec., Office of Assistance and Pollution Prevention

Martin Kenison, Director, Career and Technical Training, Program and Development Training

Chris Kuhn, Center Director, Career Systems Development Corporation, Penobscot Job Corps Academy

Anne Leiby, Senior Advisor, US EPA, Region 1

John Nelson, Manager and Program Analyst, Region I, Office of Job Corps, DOL

Vai Niifa, Director, Contract Support, Education and Training Resources

Jennifer O'Neal, Technical Assistance Manager, Adams & Associates

Sheryl K. Rosner, Special Assistant, Office of the Regional Administrator, U.S. EPA - New England Region

Bethany Shean, Director, Curriculum Development, Home Builders Institute

Wayne Thee, Director of Assessments and Support, ResCare – ETSG Youth Services

Greg Weber, New England Executive Director, Adams and Associates, Inc., Acting Director, Glenmont Job Corps Academy

Introduction

America is shifting to a “sustainable culture” where more people are living environmentally friendly and committing to responsible use of Earth’s natural resources. As our culture shifts, it is vital for our youth to learn and apply the fundamentals of living “green” as we prepare them to be responsible, working citizens. The *G.R.E.E.N! – Growing Responsible Environmental Employees Now!* – Course is designed to provide students the fundamentals of the environmental movement, the importance of living sustainably, the challenges presented by global climate change and tactics to become an environmentally responsible citizen and employee. The *G.R.E.E.N! Facilitator’s Guide* package:

- contains four comprehensive lessons focused on environmental responsibility;
- outlines supplemental resources to emphasize key points;
- provides suggested activities to apply the concepts learned outside a classroom environment; and
- includes informal assessment materials such as word searches and worksheets.

Using the Facilitator’s Guide

The purpose of this guide is to assist center staff in facilitating the *G.R.E.E.N!* Course during the Career Preparation Period (CPP). The estimated course duration is eight hours. Each of the four lessons are estimated to be approximately two hours in length, with one hour of classroom instruction and one hour of hands-on activities. Due to the diverse resources available at centers (e.g., staff availability, organization, schedules, etc.), flexibility is built into each lesson by offering a variety of activities and resources to choose from based on your needs.

The Facilitator’s Guide is organized in the following ways:

- Each module contains a lesson plan and facilitator’s notes. The lesson plan contains a basic outline and precedes the facilitator’s notes. The facilitator’s notes contain detailed information including suggested narration, resources, and activities;
- Worksheets and informal assessments are located after the Module 4 Facilitator Notes;
- A glossary, located at the end of this booklet, contains relevant terminology used throughout this course; and
- A Frequently Asked Questions provides you with background information common to topics found in this course.

The following symbols are used through the guide to provide quick reference to action items:



Indicates additional resources (available in the “Additional Resources” section of the Facilitator Notes)



Indicates a class discussion with student participation.



Indicates a video clip

WORKSHEETS and INFORMAL ASSESSMENT



YOUR ENVIRONMENT: PAST, PRESENT AND FUTURE WORD SEARCH

Find the following terms in the word search:

W A N J Y N B V S Z M I A D V O F G W I
Q T Q W N T T X M S M M A O L I Q M N O
T D V F U J I O I C K C X O M L D D K Y
R Y N W F T I L G W N Y U L O W U Y J B
A F V Y P V A A I J T O P V B S Q L D N
H V H N E B M O M B J M E C T G D E G O
O D U C I C B O K O A W E R A D R G N W
Y Z M N V G R U A J L N I R T I B R I W
R W N X Y R H T L D G A I X C V R E T W
Y A R P T E H E H K L O R A D U W E T D
C F Y K V K P X G R P A B R T Y R N U I
E N V I R O N M E N T H E I V S X Y C A
X X Q K I K H V E Y X T C P X B U F R F
J B M A J X O P W H D I T X W Q Q S A B
E N P I X L W E C O N U T K T T F F E W
S E C R U O S E R L A R U T A N F V L Q
B O F T J Q A P F I K I R Z F R Q M C Z
U E I T Y Y W H R E I S G Y S T R D W I
I O L J W W T C B F Y X T B Y N A F B V
N N P G G I H F N O W C N S V Z S A S H

CLEAR CUTTING

DDT

ENVIRONMENT

GREEN

INDUSTRIAL REVOLUTION

MERCURY

NATURAL RESOURCES

SUSTAINABILITY

YOUR ENVIRONMENT: PAST, PRESENT AND FUTURE WORD SEARCH

SOLUTION

+ + + + Y + + + + + + + + + + + + + + I
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S E C R U O S E R L A R U T A N + + L +
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YOU AND THE ENVIRONMENT: HOME, CENTER AND COMMUNITY WORD SEARCH

Find the following terms in the word search:

Y F R A S K S H Y Y B X I V J R I K E F
W B L E S I V J O J T W Y G R E N E L V
H X J L T M L V N J Z I R Z I D F T C T
E G Z G O N O V Q P X A N P E U U R Y U
N M T O K M E K A W D B V U S C D H C X
R E C Y C L E C I O F P K L M E G L E M
L K H Y E F D P W N F E A Y G M Y X F G
C L R T G I N N L F G C S K V I O X I W
R D S R X O C Z C D I S C E A G H C L H
V A N S T Y I O B M L I I R A R P J W L
W I C Z C L N C E M W Y E R G F I J R K
P L H L M Z L H V I B T W V F S S E U J
A S I X Y N C Q A D W H H C Y J N G F T
G N V M F A E Y X U A Y B Y V R W N I P
G C M Q H P S U T G Z Z E D E E Z O X C
Q U G R R V U Y C X M Y M J W S I K F S
Q B W Y K N E G Q D G P E H F U T U J X
B F D S R N R T H Y D C F K B P R P B B
L A U D I V I D N I T X W A T E R H D M
D N W F G M E A B S A E T H U X X G R V

CENTER
CHEMICALS
COMMUNITY
ENERGY
INDIVIDUAL
LIFECYCLE
RECYCLE
REDUCE
REJECT
REUSE
SMOKING
WASTE
WATER

YOU AND THE ENVIRONMENT: HOME, CENTER AND COMMUNITY WORD SEARCH

SOLUTION

+ + R + + + + + Y + + + + + R + + E +
+ + + E S + + + + + T + Y G R E N E L +
+ + + + T M + + + + + I + + + D + + C +
+ + + + + N O + + + + + N + + U + + Y +
+ + + + + E K + + + + + U S C + + C +
R E C Y C L E C I + + + + L M E + + E +
+ + + + E + + + + N + + A + + M + + F +
+ + + T + + + + + G C + + + + O + I +
+ + S + + + + + + I + + + + + C L +
+ A + + + + + + M + + + + + + + + +
W + + + + + + E + + + + + + + + + +
+ + + + + + H + + + + + + + + + + +
+ + + + + C + + + + + + + + + + + +
+ + + + + E + + + + + + + R + + + + +
+ + + + + S + + + + + + E + + + + + +
+ + + + + U + + + + + J + + + + + + +
+ + + + + E + + + + + E + + + + + + +
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L A U D I V I D N I T + W A T E R + + + +
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YOU AND A CHANGING CLIMATE WORD SEARCH

Find the following terms in the word search:

C R P I M S C I T O I B I T N A E D S T
 N H D E A N I T R O U S L N E Z D E H C
 P O L S S B V L H R R E C N U F I R N E
 M R U O N T L L A G E G E S H M X E C F
 S W C N R Z I U A S M R A X K B O G J F
 K P R G W O C C U B G S J N X C I N D E
 E S G W J A F O I Y O Y G A I V D A E L
 V R E N H H H L V D H L M K Q C N D F E
 A N E W I N K X U D E C G S A Z K N O O
 P R R H E M R H I O O S N E U V C E R E
 O J S E P V R V A N R M E G N A H C E F
 R R R D O S X A S P C O C L E A N C S F
 M G W X E Q O E W L Z E C S W R C A T I
 Y X I S T O R M I A N Q V A J S K R A C
 Z D S Q Z V Q M T A T T L Q R W N B T I
 E A P X A D A W H A P E E U U B J O I E
 G M F T N T H T J L I T R V C Q O N O N
 I O I O E N E B N O F E N O Z O E N N T
 R O S T I M U L A N T S E I C E P S S S
 N D R B O V Q X W R J J U D F C Y B B J

| | |
|---------------|------------|
| ANTIBIOTICS | OXIDE |
| ATMOSPHERE | OZONE |
| CARBON | PESTICIDES |
| CHANGE | SPECIES |
| CLEAN | STIMULANTS |
| CLIMATE | VAPOR |
| CONSERVATION | WARMING |
| DEFORESTATION | WATER |
| DIOXIDE | |
| EFFECT | |
| EFFICIENT | |
| ENDANGERED | |
| ENERGY | |
| GASSES | |
| GLOBAL | |
| GREENHOUSE | |
| METHANE | |
| NITROUS | |
| ORGANIC | |

YOU AND A CHANGING CLIMATE WORD SEARCH

SOLUTION

C + P + + S C I T O I B I T N A E D + T
+ H + E + N I T R O U S + + E + D E + C
+ + L + S + + + + R + + N + + I R + E
+ + + O + T + L + + E G E + + + X E + F
+ + + + R + I + A S + R A + + + O G + F
+ + + + + O + C U B G + + N + + I N D E
E + G + + + F O I Y O + + + I + D A E +
V R + N + + H L + D + L + + + C + D F +
A + E + I N + + U + E C G + + + + N O +
P + + H E M + + + O O S + + + + + E R E
O + + E P + R + + N R + E G N A H C E F
R + R + O S + A S + C O C L E A N C S F
+ G + X E + O E W L + E C + + + + A T I
+ + I S + + R M I A N + + A + + + R A C
+ D S + + V + M T A T + + + R + + B T I
E A + + A + A + H A + E + + + B + O I E
G + + T + T + T + + + + R + + + O N O N
+ + I + E + E + + + + E N O Z O + N N T
+ O S T I M U L A N T S E I C E P S S +
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YOU AND THE WORKFORCE: MAKING YOUR JOB GREEN WORD SEARCH

Find the following terms in the word search:

P P L Z B O Z B U P X C E Y K P F A R G
K E B E N U Y Y A U I P D T E Y Y L E Q
P D R B U O Y P P A H I W R S N G T T T
A D G M E F E I T P U J V Z C A C E E I
L R P O E R E L N B K I C I K Q W R M P
J X Q K L A O V P G O G M L F P D N T S
V O Y E I V B C I U L V G J K U E A T R
L W S M O X B L S T S O P M O C U T A E
V S B T O W A C E E A E C H J V J I W C
K C O Q K I O P Q C D N E A Y Z E V O Y
B H N V D N X Z L G O W R O L R D E L C
P T I K C B V B S Z V N C E U J E E I L
R J Y R Q E N R X A J I C S T M H N K I
U D E B G A A S Q F V S X R X L N E O N
W T E L I M I N A T I N G U E Z A R E G
E A I M L G B K R Q R H W R W T C G S Q
Y G R E N E G N I V R E S N O C E Y W S
C O M P O S I T E M A T E R I A L S C D
U T T E V M J E U G P I Z U Q J K D Y J
V S B Y P H Y O H W J F Z E P I K V K Y

ALTERNATIVE ENERGY
ALTERNATIVE FUEL
BUYING LOCAL
COMPOSITE MATERIALS
COMPOST
CONSERVING ENERGY
ELIMINATING
KILOWATT METER
PAPERLESS
PERMEABLE CONCRETE
PERVIOUS CONCRETE
PHOTOVOLTAIC
RECYCLING
WASTE

YOU AND THE WORKFORCE: MAKING YOUR JOB GREEN WORD SEARCH

SOLUTION

P + L + B + + + + P + C E + + P + A R +
+ E + E + U + + A + I + + T E + + L E +
+ + R + U + Y P + A + + + R S + + T T +
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+ + + + E R E L N + + I + + + + W R M +
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+ + S + O + + L S T S O P M O C + T A E
+ S + T + + + C E + A + C + + + + I W C
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+ H + + + N + + + + O + R + L + + E L C
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+ T E L I M I N A T I N G + E + A R + G
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Y G R E N E G N I V R E S N O C E Y + +
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PERSONAL ENVIRONMENTAL PLAN

Prepared By: _____

Date: _____

| | |
|--|-------------------|
| Personal Environmental Mission Statement: | Objective: |
|--|-------------------|

| | Reduce | Reuse | Recycle | Reject |
|---|---|--|---|--|
| Sample:
I will change the way that I buy products to have a positive impact on the environment. | I will reduce my use of paper products. | I will stop using paper plates and paper towels. | I will recycle all paper products in my home. | I will reject the use of items such as Styrofoam, items packaged in non-recyclables. |
| You: | | | | |
| At Home: | | | | |
| On Center: | | | | |
| In your Community: | | | | |

| Task | First steps to take in achieving the task. |
|---|--|
| SAMPLE: You Reduce See above
Reduce my use of paper products. | Inventory paper items that I use on a regular basis. Determine which ones that I can reduce my use of. |
| You Reduce: | |
| You Reuse: | |
| You Recycle: | |
| You Reject: | |
| At Home You Reduce: | |
| At Home You Reuse: | |
| At Home You Recycle: | |
| At Home You Reject: | |
| On Center You Reduce: | |
| On Center You Reuse: | |
| On Center You Recycle: | |
| On Center You Reject: | |
| In Your Community You Reduce: | |
| In Your Community You Reuse: | |
| In Your Community You Recycle: | |
| In Your Community You Reject: | |

Summarize your overall plan for a positive environmental impact:

GLOBAL CLIMATE CHANGE CHALLENGE

1. Food and products that are made with specific production standards and never using chemical fertilizers, stimulants, antibiotics or pesticides.
 - a. Green
 - b. Organic
 - c. Efficient
2. The Chemical element that is composed of 2 Oxygen and 1 Carbon atom. A gas at a standard temperature and pressure and present in the atmosphere. _____
3. Clean _____ is renewable, safe and cost effective.
4. Population of a species at risk of becoming extinct. _____
5. The removal of trees without appropriate replanting is also known as _____.
6. Gases in the atmosphere trap in heat and build up ultimately resulting in the increase of the earth's temperature. _____
7. Using natural resources wisely and at a slower rate than normal. _____
8. To be effective without wasting time, effort, energy or expense. _____
9. An increase in the average temperature of the earth's atmosphere is also known as _____.
10. _____ change in the statistical distribution of weather over a period of time typically a decade or longer.
11. These are gases in the atmosphere which absorb or emit radiation. This includes Ozone, water vapor, Carbon Dioxide, Methane, and Nitrous Oxide. _____
12. This is a set of chemical compounds that deplete the Earth's Ozone. Widely used in aerosols, solvents, propellants and coolants. These are the main cause of Ozone depletion.
13. This is the principal component of natural gas which is colorless and odorless. This is also considered a GHG. Also produced by mud volcanoes, faults and livestock.
 - a. Ozone
 - b. Methane
 - c. CO₂
14. A slow steady decline in the total amount of ozone in the Earth's stratosphere.
 - a. Ozone depletion
 - b. Ozone recession
 - c. Methane depletion

GLOBAL CLIMATE CHANGE CHALLENGE

1. Food and products that are made with specific production standards and never using chemical fertilizers, stimulants, antibiotics or pesticides.
 - a. Green
 - b. Organic
 - c. Efficient
2. The Chemical element that is composed of 2 oxygen and 1 carbon atom. A gas at a standard temperature and pressure and present in the atmosphere. Carbon Dioxide
3. Clean Energy is renewable, safe and cost effective.
4. Population of a species at risk of becoming extinct. Endangered Species
5. The removal of trees without appropriate replanting is also known as Deforestation.
6. Gases in the atmosphere trap in heat and build up ultimately resulting in the increase of the earth's temperature. Greenhouse Effect
7. Using natural resources wisely and at a slower rate than normal. Conservation
8. To be effective without wasting time, effort, energy or expense. Efficient
9. An increase in the average temperature of the earth's atmosphere is also known as Global Warming.
10. Climate change in the statistical distribution of weather over a period of time typically a decade or longer.
11. These are gases in the atmosphere which absorb or emit radiation. This includes ozone, water vapor, carbon dioxide, methane, and nitrous oxide. Greenhouse Gases
12. This is a set of chemical compounds that deplete the earth's ozone. Widely used in aerosols, solvents, propellants and coolants. These are the main cause of ozone depletion. CFC's or Chlorofluorocarbons
13. This is the principal component of natural gas which is colorless and odorless. This is also considered a GHG. Also produced by mud volcanoes, faults and livestock.
 - a. Ozone
 - b. Methane
 - c. CO₂
14. A slow steady decline in the total amount of ozone in the Earth's stratosphere.
 - a. Ozone depletion
 - b. Ozone recession
 - c. Methane depletion

GLOSSARY of TERMS



| | |
|--|--|
| Adaptation | Responses to the changing climate (e.g., acclimatization in humans) and policies to minimize the predicted impacts of climate change (e.g., building better coastal defenses). |
| Carbon Dioxide (CO₂) | Chemical element that is composed of 2 Oxygen and 1 Carbon atom. A gas at a standard temperature and pressure and present in the atmosphere. |
| Carbon Footprint | The total amount of greenhouse gases produced to directly and indirectly support human activities, usually expressed in equivalent tons of carbon dioxide (CO ₂). |
| Chlorofluorocarbons (CFC's) | Set of chemical compounds that deplete the Earth's Ozone. Widely used in aerosols, solvents, propellants and coolants. These are the main cause of ozone depletion. |
| Clean Energy | Energy that is renewable, safe and cost effective. |
| Clear Cutting | A section of forest where all trees have been cut down and harvested. |
| Climate Change | Change in the statistical distribution of weather over a period of time typically a decade or longer. |
| Community | A group of people living in a particular local area. |
| Composite Materials | Engineered materials made from two or more constituent substances with significantly different physical or chemical properties which remain separate and distinct on a macroscopic level within the finished structure. Typically require little to no maintenance or upkeep. |
| Compost | A combination of food waste and brown waste that together is being decomposed through aerobic decomposition resulting in a rich black soil. The process of composting is simple and practiced by individuals in their homes, farmers on their land, and industrially by cities |
| Conservation | Using natural resources wisely and at a slower rate than normal. A controlled use of a resource.

The act or process of conserving. |
| DDT (dichlorodiphenyltrichloroethane) | Synthetic chemical pesticide with a controversial history. DDT is known to have had adverse effects on humans, animals and the environment. Rachel Carson's book <i>Silent Spring</i> , published in 1962 lead most uses of this product to be banned in the U.S. in 1972. |
| Deforestation | The removal of trees without appropriate replanting. |
| Efficient | Being effective without wasting time, effort, energy or expense.

High degree or ratio of output to input. |

| | |
|---|---|
| Emission | A substance discharged into the air, especially by an internal combustion engine. |
| Endangered Species | Population of a species at risk of becoming extinct. |
| Energy Efficiency | The use of less energy to provide the same or an improved level of service to the energy consumer in an economically efficient way; or using less energy to perform the same function. |
| Environment | The totality of surrounding conditions, including the air, water, and fertile land, that allows life to thrive.

Combination of external living conditions which directly affects the growth and development of living organisms. |
| Global Warming | Increase in the average temperature of the earth's atmosphere. |
| Green | Term used to refer to services, products, and practices whose manufacturing purchase and use allows of economic development while still promoting conservations for future generations. |
| Green Building Materials or Products | Products or materials composed of renewable, versus nonrenewable resources. These materials and products are more environmentally responsible since impacts are considered over the life of the product. |
| Greenhouse Effect | When gases in the earth's atmosphere trap in heat and build up ultimately resulting in the increase of the earth's temperature.

Greenhouse Gasses (GHG) - Gases in the atmosphere that absorb or emit radiation. GHG include ozone, water vapor, carbon dioxide, methane, and nitrous oxide. |
| Impact | To have a strong influence; to have an effect on something. |
| Industrial Revolution | The Industrial Revolution was a period from the 18th to the early 19th century where technological discoveries resulted in major changes in agriculture, manufacturing, mining, and transport. In addition to creating a greater variety and volume of products and services, the Industrial Revolution has increased the pace and intensity of natural resource consumption and contamination. |
| Kilowatt Meter | A device that measures the amount of electrical energy supplied to or produced by a residence , business or machine . |
| Life Cycle Assessment | Investigation and evaluation of the environmental impacts of a given product or service. |
| Mercury | Toxic chemical element found today in fish. |
| Methane | Principal component of natural gas which is colorless and odorless. Methane is considered a GHG. Also produced by mud volcanoes, faults and livestock. |

| | |
|---------------------------------------|---|
| Natural Resources | Materials that occur naturally within environments that exist relatively undisturbed by mankind, in a natural form. Natural resources are derived from the environment . Many of them are essential for our survival while others are used for satisfying our wants. Natural resources may be further classified in other ways. |
| Organic | Food or product made with specific production standards and never using chemical fertilizers, stimulants, antibiotics or pesticides.

Derived from living organisms. |
| Ozone Depletion | A slow steady decline in the total amount of Ozone in the Earth's stratosphere. Ozone is considered a GHG. |
| Pervious or Permeable Concrete | Mixture of aggregate concrete, Portland Cement, water and a small amount of sand. This concrete allows water to pass through at a rate of 3-8 gallons per minute per square foot. |
| Photovoltaic | Technology that converts light directly into electricity. |
| Recycle | Cause to repeat a cycle, to use again after processing. |
| Reduce | To narrow, limit or make smaller.

To lessen to an extent. |
| Reject | To refuse use of a particular chemical, product, items that have a particularly negative impact on the environment.

To refuse to accept. |
| Renewable Energy | Energy generated from natural resources - such as sunlight, wind, rain, tides, and geothermal heat - which are naturally replenished. |
| Reuse | To put to use again; use after original intention. |
| Sustainability | The potential for long-term maintenance of wellbeing, which in turn depends on the wellbeing of the natural world and the responsible use of natural resources. |
| Waste | Any material unused or and rejected as worthless or unwanted; to use inappropriately, or inefficiently.

To use or expand needlessly and carelessly.

To destroy completely.

Worthless or useless material that is discarded as refuse. |

FREQUENTLY ASKED QUESTIONS



Module One – Your Environment: Past, Present and Future

- What is pollution and what types of pollutions are there?
- What natural disasters have contributed to pollution?
- What practices during the Industrial Revolution have contributed to pollution, erosion and the depletion of natural resources?
- What has been done to reclaim sites such as Love Canal and the Charles River?
- What is the EPA?
- Why was the EPA established?
- What is the Green Movement?
- What is Green Building?
- What is renewable Energy?
- What are Alternative Fuels and are they readily available?
- Why should I care about sustainable choices to improving the environment?
- What daily practices can contribute to sustainable changes to the environment?
- What is meant by organic? How does eating organic impact my community?
- What is Hazardous Waste?
- What are Material Safety Data Sheets (MSDS) and how do I use them to protect the environment?

Module Two – You and the Environment: Home, Center and Community

- What is a landfill?
- What is Carbon Footprint
- What can I do to reduce my Carbon Footprint?
- What are Hybrid Cars?
- What are Eco-friendly products?
- What is the Energy Star label? How do purchasing energy efficient appliances contribute to the Green Movement?
- What can I do to apply the 4 R's (Reduce, Reuse, Recycle and Reject) to daily center life?
- What is a Life Cycle Assessment?
- What impact has the cutting down of trees had on the environment? How can I help to re-green my community?
- What are Compact Fluorescent bulbs?
- What is an Energy Audit?
- What are carbon emissions and what can be done to reduce them?
- What are Green Jobs?
- What is "Earth Day"?

Module Three – You and a Changing Climate

- What is a Carbon Footprint and why is important to know my Carbon Footprint?
- What is the difference between "Climate Change" and "Global Warming"?
- Basically I understand "Global Warming" however, what specific occurrences will result from "Climate Change"?
- What reliable resources would you recommend I use to find more information about Global Warming and Climate Change?
- Will it really make a difference in the future if people do their part today? What will the difference be?

Module Four – You in the Workforce: Making Your Job Green

- Do most Green Industry jobs require a degree?
- Can you name some companies that have made a pledge to go Green?
- Besides the obvious, are there any additional incentives for Companies to go Green i.e., tax breaks?
How about for individuals?
- Where can I get more information about the tools necessary to offer continuous improvements to my company?
- What is “green value”?