

Use the **Career Exploration Reading Passage** to answer the following questions:

1. List the seven areas that an energy auditor would inspect and document to determine the energy usage of a building:

- Construction techniques
- Insulation
- Windows energy efficiency
- Ratio of windows to walls
- Heating and cooling system energy efficiencies
- Water heating system energy efficiency
- Solar orientation

2. Where would an energy auditor look for information on building construction, insulation and heating and cooling equipment?

- Building drawings/blueprints
- Equipment inventories

3. What items might the inspector find information about by walking through the facility?

- Ratio of windows to walls
- Solar orientation

3. Summarize the main components of an energy auditor's final report:

- **Current energy usage:** Identify the type, size, condition, and rate of energy consumption for each major energy-using device.
- **ECMS:** Recommended energy conservation, operation, and maintenance procedures.
- **Potential equipment upgrades/replacement**
- **Cost-saving analysis:** Projects savings expected from energy retrofits and changes in building operations

Why consider a career as an energy auditor?

Why is energy auditing considered a "green" career?

What type of education do you need to have in order to be energy auditor?

Experience, training and education requirements vary depending on the type of energy audit requested. A preliminary or Level 1 Audit requires some experience with construction and/or courses in engineering, plus training in specific energy auditing techniques. Higher level audits, such as building commissioning, require an engineering degree and knowledge of building codes and government regulations. All auditors need to know how to determine energy savings opportunities and perform energy calculations. Other important skills include:

- Computer literacy, including proficiency in Word and Excel
- Excellent verbal and written communication skills
- Excellent report writing and problem-solving skills