



# Energy Auditors

**Cluster Overview:** Planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.

**Career Goal (O\*NET Code):** (15-1041) - Conduct energy audits of buildings, building systems, or process systems. May also conduct investment grade audits of buildings or systems.

**Student Name:** \_\_\_\_\_

**Grade:** \_\_\_\_\_

**School:** \_\_\_\_\_

## SUGGESTED COURSEWORK

## EXTENDED LEARNING EXPERIENCES

Middle School	8th	HS Courses:	(Local districts may list high school credit courses here)	<p><b>Curricular Experiences***:</b>            BEST Robotics, Inc.            FIRST Robotics Competition            Project Lead the Way            Skills USA            Technology Student Association            The Infinity Project</p> <p><b>Career Learning Experiences:</b>            Career Preparation            Job Shadowing            Internship</p> <p><b>Service Learning Experiences:</b>            Campus Service Organizations            Community Service Volunteer            Peer Mentoring/Peer Tutoring</p>	<p><b>Extracurricular Experiences:</b>            Destination ImagiNation            International Bridge Building Contest            Marine Advanced Technology Education Center            National Engineering Design Competition            UIL Academic Competitions            VEX Robotics Competition</p>		
High School	9th	<b>Courses*:</b>	English I Algebra I or Geometry Biology			World Geography Foreign Language I Physical Education or Athletics	<p><b>COLLEGE CREDIT OPPORTUNITIES -- High School</b></p> <p>Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus.</p>
		<b>Career-Related Electives:</b>	Concepts of Engineering & Technology				
	10th	<b>Courses:</b>	English II Geometry or Algebra II Chemistry			World History Foreign Language II Elective	
		<b>Career-Related Electives:</b>	Engineering Design & Presentation				
	11th	<b>Core Courses:</b>	English III Algebra II or Pre-Calculus Physics			United States History Foreign Language III ** Professional Communications or Speech	
		<b>Career-Related Electives:</b>	Advanced Engineering Design & Presentation				
12th	<b>Core Courses:</b>	English IV Pre-Calculus or Calculus 4th Science	Government/Economics Elective Elective				
	<b>Career-Related Electives:</b>	Practicum in STEM					
	<b>How to Become a Chemical Technician</b> N/A					<p><b>Carrer Options</b> (Sample of reported job titles)</p>	<p><b>Professional Associations:</b> N/A</p>
Postsecondary		Texas Southmost College	South Texas College			Texas State Technical College	<p>• Energy Auditor • Energy Rater • Energy Consultant</p> <p>• Home Performance Consultant • Building Performance Consultant • Home Energy Rater</p>
		The University of Texas at Brownsville	The University of Texas - Pan American				

\* Students must meet local & state high school graduation requirements. \*\* Required course for the Distinguished Graduation Plan (in addition to other measures). \*\*\* Based on campus availability. Students may select other elective courses for personal enrichment purposes.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2009. All plans meet high school graduation requirements as well as college entrance requirements.



## Energy Auditors

<b>TEA Industry Cluster</b>	STEM
<b>SOC Code</b>	13-1199
<b>Identified by</b>	TIP Strategies
<b>Projected Growth (2018)</b>	-
<b>BISD Magnet School Available</b>	-

**Source:** Demand Occupations by Cluster, updated June 27, 2012

### Description

#### What Energy Auditors Do

Conduct energy audits of buildings, building systems, or process systems. May also conduct investment grade audits of buildings or systems.

#### Duties

- Identify and prioritize energy saving measures.
- Prepare audit reports containing energy analysis results or recommendations for energy cost savings.
- Collect and analyze field data related to energy usage.
- Inspect or evaluate building envelopes, mechanical systems, electrical systems, or process systems to determine the energy consumption of each system.
- Perform tests such as blower-door tests to locate air leaks.
- Educate customers on energy efficiency or answer questions on topics such as the costs of running household appliances or the selection of energy efficient appliances.
- Calculate potential for energy savings.
- Prepare job specification sheets for home energy improvements, such as attic insulation, window retrofits, or heating system upgrades.
- Recommend energy efficient technologies or alternate energy sources.
- Quantify energy consumption to establish baselines for energy use or need.

### Training Opportunities Linked to Those Jobs

(Degree Types and Colleges/Universities)

Information not available.

Texas Southmost College	South Texas College	Texas State Technical College	The University of Texas at Brownsville	The University of Texas - Pan American

### Local Employers

Information not available.

### Career Options

(Specific Job Types)

- Energy Auditor
- Energy Rater
- Energy Consultant
- Home Performance Consultant
- Building Performance Consultant
- Home Energy Rater

### Salary Ranges

Information not available.

### Professional Associations linked to the Careers

Information not available.

### Sources

The information provided in this document was collected from the following sources:

- Occupational Outlook Handbook (<http://www.bls.gov/ooh/>)
- O\*NET OnLine (<http://www.onetonline.org/>)
- Texas CARES (<http://www.texascaresonline.com/>)
- CareerOneStop (<http://www.careeronestop.org/>)