

EDMENTUM CAREER: TRADE PREP

Clean Energy

Program Guide

Unlock a Path to a New Clean Energy Career

Start your journey towards a new career with skilled trades high school content for Construction and Building Trades. Embark on an expertly curated program where you can build skills, earn a job-ready certificate, and have the option to pursue industry-recognized certifications to turn you into a highly competitive job candidate. By leveraging the power of immersive 3D simulations and high-impact video content, you will build the essential skills needed to enter the workforce.

The Clean Energy Program prepares you for entry-level clean energy positions. After completing the program, you should be employable as an energy efficiency technician helper who can be a valuable helper in the field.



86 Expert-led Training Hours



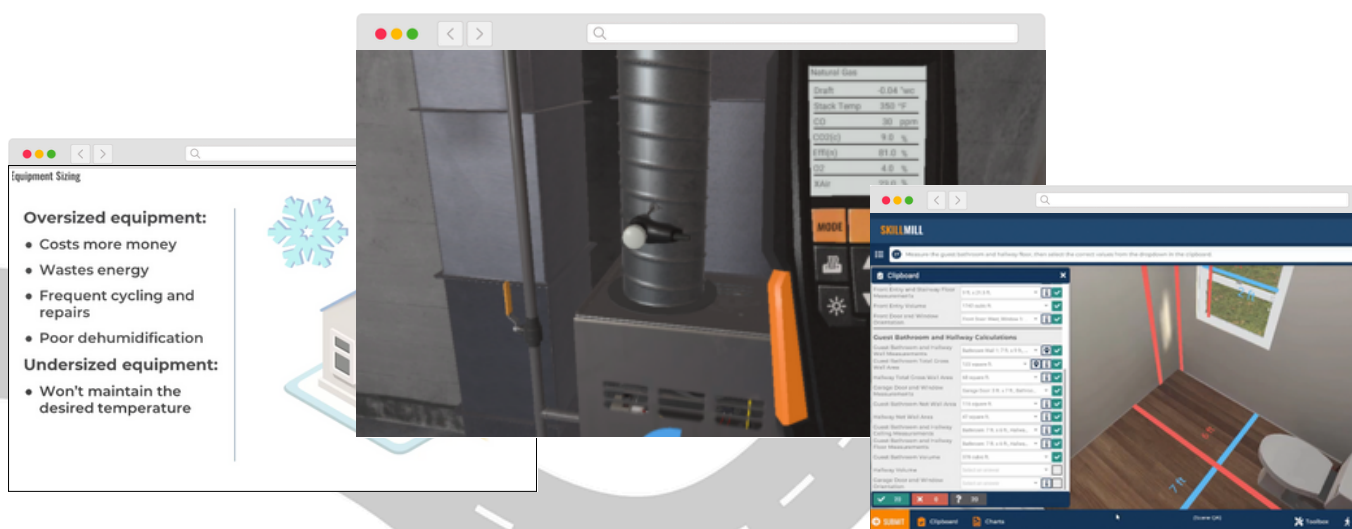
Interplay Job-Ready Certificate



Clean Energy Career Exploration



Guidance for Industry Certification



Clean Energy Program Guide

Skilled Trades High School Content for In-Demand Jobs

Edmentum Career: Trade Prep has what need to unlock your potential and start a new career. After completing the program, you will receive an Interplay Learning Job-Ready Certificate.

Construction and Solar Basics

- Basic Construction for Trades
- Ladder Safety
- Solar Basics
- Foundations of PV
- Solar Cell Technology
- Solar Module Design
- Solar Inverter Technology
- The IV Curve
- Site Assessment
- Introduction to Utility Solar

Electrical Basics

- Fundamental Electrical Concepts
- Electrical Panels: Components and Safety
- Electrical Tools
- Introduction to Electrical Circuits
- Electrical Devices
- How to Use a Multimeter
- Math for Electricians
- Reading Schematics and Drawings
- Electrical Installation
- Hand and Power Tools for Electrical Work

Water Heating Systems

- Introduction to Water Heaters
- Electric Water Heater Operation
- Gas Water Heater Operation
- Water Heater Maintenance

HVAC Systems

- HVAC Systems
- HVAC System Parts
- Variable Speed Technology in HVAC Systems
- A2L Refrigerants Introduction
- Intro to Heat Pumps
- Intro to Chillers
- HVAC Ducting and Airflow
- Introduction to Cold Climate Heat Pumps
- Variable Refrigerant Flow (VRF) System Overview
- Air-Source Heat Pump Introduction
- Geothermal Heat Pump Introduction
- Cold Climate Heat Pump Retrofit
- Low GWP Refrigerant

HVAC Calculations

- Common HVAC Formulas
- SEER2 and Energy Efficiency
- Psychometrics
- Comfort and Airflow
- Manual J Calculations
- Manual D Calculations
- Heating and Cooling Load Calculations
- Combustion Analysis

Become a More Competitive Job Candidate

Learn more about a career in multifamily maintenance with additional, optional content.

CAREER EXPLORATION



Explore immersive experiences to help visualize the day-to-day duties, tools, and skills required for each career path.

INDUSTRY CERTIFICATION



OSHA 10-Hour Construction Industry Exam*

**Trade Prep provides guidance that connects students to relevant third-party exam information. Completing the exam is an additional purchase.*