

## EDMENTUM CAREER: TRADE PREP

# Residential Construction

## Program Guide

### Unlock a Path to a New Residential Construction 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 Residential Construction Program prepares you for entry-level residential construction positions. After completing the program, you should be employable as a building construction technology (BCT) worker who can be a valuable helper in the field.

✓ 108 Expert-led Training Hours

✓ Interplay Job-Ready Certificate

✓ Residential Construction Career Exploration

✓ Guidance for Industry Certification



# Residential Construction 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.

### Getting Started

- Basic Construction for Trades
- Carpentry Basics
- Trades Math
- Practical Measurements for the Trades
- Hazard Communications
- Hot Work
- Personal Protective Equipment (PPE)

### Safety

- Ladder and Fall Safety
- Heat Stress Recognition and Prevention
- Preventing Slips, Trips, and Falls
- Back Safety and Injury Prevention
- Hand and Power Tool Safety
- Roofing Safety

### Framing

- Framing: Floors
- Framing: Exterior Walls, Windows, and Doors
- Framing: A Trussed Rafter Roof

### HVAC for Construction

- What is HVAC?
- HVAC Systems
- Intro to HVAC Mechanical Code Regulations
- Ductwork Fabrication and Installation Overview

### Electrical for Construction

- Fundamental Electrical Concepts
- Electrical Panels: Components and Safety
- Electrical Safety
- Intro to Electrical Code
- Electrical Tools
- Lockout/Tagout
- How to Use a Multimeter
- Reading Schematics and Drawings

### Electrical for Construction (cont.)

- Electrical Installation
- EMT Installation: Boxes and Conduit
- Grounding and Bonding
- Electrical Safety Assessment and Hazard Recognition: Construction Jobsite
- NEC Code Changes - 2023
- Introduction to the NEC: Wiring and Protection
- NEC: Wiring Methods and Materials
- NEC Commissioning: Rough-in Inspection

### Plumbing for Construction

- Reading Plumbing Plans
- How Does Plumbing Work?
- Basic Plumbing Tools
- Plumbing Fixtures Overview
- Plumbing Fixtures Installation
- Plumbing Code Overview
- Water Treatment and Well Systems
- Plumbing Safety
- Hand Tools for Plumbing Work
- Principles of Backflow
- Introduction to Natural Gas and Liquid Propane Gas Piping Systems
- Power Tools for Plumbing Work

### Interior Finishing

- Painting Basics
- Interior Finishing Floors: VCT Tile and Sheet Vinyl
- Interior Finishing: Drywall
- Interior Finish and Trim

### Exterior Finishing

- Landscaping Basics
- Exterior Finishing Walls: Vinyl Siding
- Exterior Finishing: Decks
- Exterior Finishing Roofs: Asphalt Shingles

## 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.*