

Programs By Career Cluster:

Construction

Carpentry

Learn the fundamentals of residential carpentry and participate in the construction of a new house on site, as well as the rehabilitation of an existing house. Gain experience in wall, ceiling and roof framing, exterior finishing, trimming, windows and doors, insulation and floor systems.



Possible Career Paths:

- *With a 2-year CTE program:* Carpenter, increased demand 8%*
- *An associate's degree or postsecondary:* Construction Manager, increased demand 11%*
- *A bachelor's degree:* Civil Engineer, increased demand 11%*

HVAC/Plumbing

Learn the fundamentals of residential plumbing and heating installation. Read blueprints and schematics while learning to fit, assemble, and prepare piping. Learn to install residential and commercial heating, air conditioning, refrigeration and ventilation systems.



Possible Career Paths:

- *With a 2-year CTE program:* Plumber, Pipefitter, increased demand 16%*
- *An associate's degree or postsecondary:* HVAC/R Mechanic, increased demand 15%*
- *A bachelor's degree:* Mechanical Engineer, increased demand 9%*

Residential and Commercial Electrical

Learn the fundamentals of electrical theory, residential and commercial wiring. Learn to interpret and apply the requirements of the National Electric Code for designing layouts, maintenance, troubleshooting and repair of electrical circuits and equipment.



Possible Career Paths:

- *With a 2-year CTE program:* Electrician, increased demand 9%*
- *An associate's degree or postsecondary:* Electronics Technician, increased demand 2%*
- *A bachelor's degree:* Electrical Engineer, increased demand 7%*

Introduction to Construction Trades


Explore and build knowledge in four areas of construction trades: carpentry, HVAC/plumbing, electricity and heavy equipment.



Possible Career Paths:

- As a general introduction to all classes in the Construction Cluster, students in Intro to Construction Trades usually select Carpentry, HVAC/Plumbing or Residential and Commercial Electrical for their second program year.

KEY

 Dual Enrollment

 Industry Credentials (or credentialing/ licensing preparation)

* Projected national growth for 2016-2026, US Bureau of Labor Statistics

Programs & Career Cluster Alignment

Our programs correlate to one or more US Dept. of Education Career Clusters

<u>Program</u>	<u>Correlated Career Clusters</u>	<u>Program</u>	<u>Correlated Career Clusters</u>
Advertising Design/ Multimedia	Arts, A/V Technology & Communications	Culinary Arts	Hospitality & Tourism Human Services
Auto Body and Collision Repair Technology	Transportation, Distribution & Logistics Science, Technology, Engineering & Mathematics	Dental Assisting	Health Science
Automotive Technology	Transportation, Distribution & Logistics Agriculture, Food & Natural Resources	Engineering and Metal Fabrication Academy - Machining	Manufacturing Transportation, Distribution & Logistics
Baking	Hospitality & Tourism Human Services	Engineering and Metal Fabrication Academy - Welding	Manufacturing Transportation, Distribution & Logistics
Carpentry	Architecture & Construction Science, Technology, Engineering & Mathematics	Exercise Science	Health Science
Certified Nurse Assisting	Health Science	HVAC/Plumbing	Architecture & Construction
Child and Family Development	Education & Training Human Services	Heavy Equipment Operation and Maintenance	Transportation, Distribution & Logistics Agriculture, Food & Natural Resources
Computer Technology	Information Technology Science, Technology, Engineering & Mathematics	Outdoor Powersports Technology	Transportation, Distribution & Logistics
Intro to Construction Trades	Architecture & Construction Science, Technology, Engineering & Mathematics	Phlebotomy and Laboratory Science	Health Science Agriculture, Food & Natural Resources
Cosmetology	Human Services Marketing	Residential and Commercial Electrical	Architecture & Construction Science, Technology, Engineering & Mathematics
Criminal Justice	Law, Public Safety, Corrections & Security Government & Public Administration	New Visions Health Professions	Health Science
		New Visions STEM Professions	Science, Technology, Engineering & Mathematics

For details on Career Clusters, visit the U. S. Department of Education website or Advance CTE (careertech.org)