

# Programs By Career Cluster:

## Construction

### Carpentry

Learn the fundamentals of residential carpentry and participate in the construction of a new house on site. 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 10.4%\*
- *A bachelor's degree:* Civil Engineer, increased demand 15.8%\*

### HVAC/Plumbing

Gain in depth knowledge 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 17.8%\*
- *An associate's degree or postsecondary:* HVAC/R Mechanic, increased demand 17%\*
- *A bachelor's degree:* Mechanical Engineer, increased demand 9%\*

### Residential and Commercial Electrical


Attain experience in 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 11.7%\*
- *An associate's degree or postsecondary:* Electronics Repairer, increased demand 2.1%\*
- *A bachelor's degree:* Electrical Engineer, increased demand 10.6%\*

#### KEY

 Dual Enrollment

 Industry Credentials (or credentialing/ licensing preparation)

\* Projected New York State Finger Lakes Region growth for 2016-2026, New York State Department of Labor

# 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>
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	Digital and Visual Communication	Arts, A/V Technology & Communications
Baking	Hospitality & Tourism Human Services	Engineering and Metal Fabrication - Machining	Manufacturing Transportation, Distribution & Logistics
Carpentry	Architecture & Construction Science, Technology, Engineering & Mathematics	Engineering and Metal Fabrication - Welding	Manufacturing Transportation, Distribution & Logistics
Child and Family Development	Education & Training Human Services	Exercise Science	Health Science
Computer Technology	Information Technology Science, Technology, Engineering & Mathematics	HVAC/Plumbing	Architecture & Construction
Intro to Construction Trades	Architecture & Construction Science, Technology, Engineering & Mathematics	Heavy Equipment Operation and Maintenance	Transportation, Distribution & Logistics Agriculture, Food & Natural Resources
Cosmetology	Human Services Marketing	Nurse Assisting and Associated Health Careers	Health Science
Criminal Justice	Law, Public Safety, Corrections & Security Government & Public Administration	Outdoor Powersports Technology	Transportation, Distribution & Logistics
Culinary Arts	Hospitality & Tourism Human Services	Phlebotomy and Laboratory Science	Health Science Agriculture, Food & Natural Resources
		Residential and Commercial Electrical	Architecture & Construction Science, Technology, Engineering & Mathematics
		New Visions Health Professions	Health Science

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