

# Programs By Career Cluster:

## Construction

### Carpentry ③

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 7.2%\*
- *An associate's degree or postsecondary:* Construction Manager, increased demand 8.5%\*
- *A bachelor's degree:* Civil Engineer, increased demand 11.4%\*

### HVAC/Plumbing ① ③

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 13%\*
- *An associate's degree or postsecondary:* HVAC/R Mechanic, increased demand 11.8%\*
- *A bachelor's degree:* Mechanical Engineer, increased demand 4.6%\*

### Residential and Commercial Electrical ① ③

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 9.1%\*
- *An associate's degree or postsecondary:* Security and Fire Alarm Installer, increased demand 26.7%\*
- *A bachelor's degree:* Electrical Engineer, increased demand 4.5%\*

#### KEY

① Dual Enrollment

③ Industry Credentials (or credentialing/ licensing preparation)

\* Projected New York State Finger Lakes Region growth for 2018-2028, New York State Department of Labor

# Programs & Career Cluster Alignment

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

<b><u>Program</u></b>	<b><u>Correlated Career Clusters</u></b>	<b><u>Program</u></b>	<b><u>Correlated Career Clusters</u></b>
Auto Body and Collision Repair Technology	Transportation, Distribution & Logistics Science, Technology, Engineering & Mathematics	Digital and Visual Communication	Arts, A/V Technology & Communications
Automotive Technology	Transportation, Distribution & Logistics Agriculture, Food & Natural Resources	Engineering and Metal Fabrication - Machining	Manufacturing Transportation, Distribution & Logistics
Baking	Hospitality & Tourism Human Services	Engineering and Metal Fabrication - Welding	Manufacturing Transportation, Distribution & Logistics
Carpentry	Architecture & Construction Science, Technology, Engineering & Mathematics	Exercise Science	Human Services Health Science
Child and Family Development	Education & Training Human Services	HVAC/Plumbing	Architecture & Construction
Computer Technology	Information Technology Science, Technology, Engineering & Mathematics	Heavy Equipment Operation and Maintenance	Transportation, Distribution & Logistics Agriculture, Food & Natural Resources
Cosmetology	Human Services Marketing	Medical Laboratory Assisting and Phlebotomy	Health Science Agriculture, Food & Natural Resources
Criminal Justice	Law, Public Safety, Corrections & Security Government & Public Administration	Nurse Assisting and Associated Health Careers	Health Science
Culinary Arts	Hospitality & Tourism Human Services	Outdoor Powersports Technology	Transportation, Distribution & Logistics
Dental Assisting	Health Science	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))