

Welcome to Western Area CTC

Do you have what it takes to jumpstart a career??

Student Requirements:

- Good Work Ethic
- Positive Attitude
- Respect
- Creativity
- Organizational Skills
- Cooperation With Others





Western Area CTC is operated by 9 school districts in Washington County:



Avella Area School District



McGuffey School District



Burgettstown Area School District



Peters Township School District



Canon-McMillan School District



Trinity Area School District



Chartiers-Houston School District



Washington High School



Fort Cherry School District

PRODUCTION	Projected Employment	Annual Openings	2009 Avg Wage
Bakers	9,960	254	\$26,390
Laundry & Dry-Cleaning Workers	9,140	257	\$22,390
Food Batchmakers	7,920	267	\$27,850
Water Treatment Plant Operators	7,650	165	\$43,020

TRANSPORTATION & MATERIAL MOVING	Projected Employment	Annual Openings	2009 Avg Wage
Truck Drivers, Heavy & Tractor-Trailer	82,860	1,873	\$40,580
Bus Drivers, School	27,270	446	\$27,820
Bus Drivers, Transit & Intercity	15,220	231	\$33,730
Cleaners of Vehicles & Equipment	13,480	520	\$22,390

MANAGEMENT	Projected Employmen	Annual Openings	2009 Avg Wage
Farmers & Ranchers	30,010	339	N/A
Farm, Ranch & Other Agricultural Managers	16,930	362	\$75,730
Medical & Health Services Managers	15,450	388	\$85,280
Construction Managers	11,280	259	\$90,490

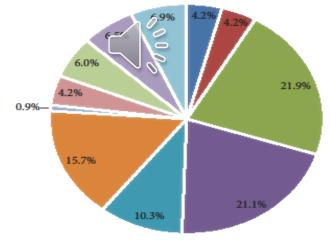
BUSINESS & FINANCIAL OPERATIONS	Projected Employment	Annual Openings	Avg Wage
Accountants & Auditors	58,530	1,256	\$67,78
Management Analysts	26,410	463	\$89,07
Claims Adjusters, Examiners & Investigators	16,070	422	\$58,73
Cost Estimators	11,860	304	\$59,31

INSTALLATION & MAINTENANCE	Projected Employment	Annual Openings	2009 Avg Wage
Maintenance & Repair Workers	66,250	217	\$36,080
Automotive Service Technicians & Mechanics	40,330	904	\$35,830
Industrial Machinery Mechanics	17,540	401	\$44, 570
HVAC & Refrigeration Mechanics & Installers	14,870	286	\$42,460

CONSTRUCTION & EXTRACTION	Projected Employment	Annual Openings	2009 Avg Wage
Carpenters	55,670	803	\$42,980
Construction Laborers	40,230	416	\$32,980
Electricians	26,350	679	\$56,230
Construction	20,550	329	\$62,220

FARMING, FISHING & FORESTRY	Projected Employment	Annual Openings	2009 Avg Wage
Farmworkers, Crop, Nursery & Greenhouse	39,630	1,346	\$24,280
Farmworkers, Farm & Ranch Animals	6,440	216	\$23,570
Agricultural Equipment Operators	3,730	120	\$32,870
Farming, Fishing & Forestry Supervisors	2,480	66	\$50,010

Pennsylvania's Projected 2018



Occupational Workforce Composition

OFFICE & ADMINISTRAT	VE_	Projected Employment	Annual	2009 Avg
SUPPORT		Linployment	Орення	Wage
Office Clerks, General		166,250	3,261	\$28,250
Customer Service Reps		112,250	3,949	\$33,300
Bookkeeping, Accounting & Auditing Clerks		84,900	1,491	\$34,440

PROFESSIONAL & RELATED	Projected Employment	Annual Openings	2009 Avg Wage
Registered Nurses	157,300	4,424	\$63,600
Elementary School Teachers	83,520	1,952	\$52,370
Postsecondary Teachers	77,990	2,161	\$76,270
Licensed Practical Nurses	41,000	1,278	\$41,300

SERVICE OCCUPATIONS	Projected Employment	Annual Openings	2009 Avg Wage
OCCUPATIONS			
Combined Food Prep & Serving Workers	139,390	3,698	\$19,22
Janitors & Cleaners	113,200	2,493	\$24,91
Waiters & Waitresses	104,460	6,008	\$19,31
Nursing Aides, Orderlies & Attendants	88,440	1,506	\$26,29

SALES & RELATED	Projected Employment	Annual Openings	2009 Avg Wage
Retail Salespersons	214,210	7,163	\$25,030
Sales Representatives	86,550	2,007	\$62,920
Retail Sales Supervisors	48,530	1,039	\$42,410
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Architecture and Construction

Carpentry

- Tool Safety
- Site Preparation
- Framing
- Interior Finishes
- Exterior Finishes



- ► Hand and Power Tools
- Blueprint Reading
- Building Materials
- Framing
- Estimating/Related Math









Electrical Construction

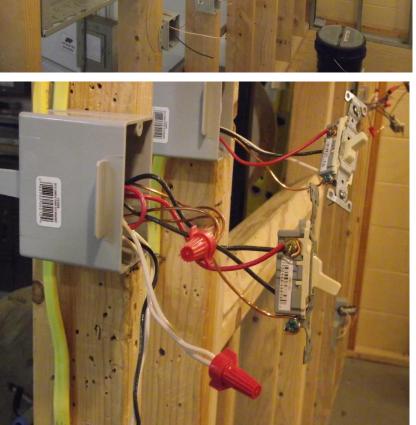




- National Electric Code
- Residential, Commercial, and Industrial Wiring
- Maintenance Electricity
- ► Telecommunication Wiring

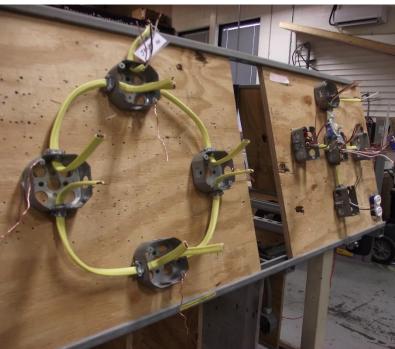
- **Conduit Bending**
- Blueprint Reading
- Workplace Safety











Heating, Ventilation & Air Conditioning

What you will learn...

- Residential Forced Air Heating and Air Conditioning systems
- Commercial Chilled Water Systems
- Residential and Commercial Indoor Air Quality
- Residential and Commercial Refrigeration Systems
- ► EPA Approved Refrigeration Practices (recovering and charging)



Sheet Metal Fabrication

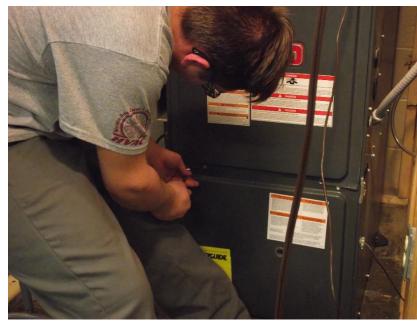
- Copper Tubing, Steel Pipe, and PVC Pipe Piping Practices (installation)
- Soldering and Brazing Techniques
- Reading Blueprints
- Wiring Diagrams
- Wiring Basic HVAC Controls

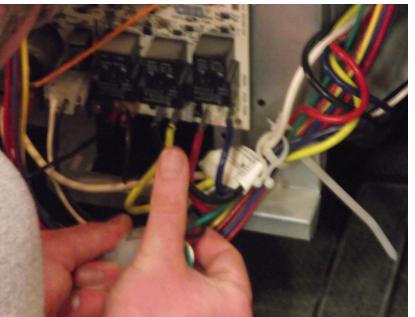












Masonry

- General Maintenance
- Blueprint Reading
- Electrical Applications
- Plumbing
- Carpentry
- Masonry





- Painting and Decorating
- Dry walling and Texturing
- Remodeling
- Welding
- Safety Awareness











Health, Public and Human Services

Cosmetology

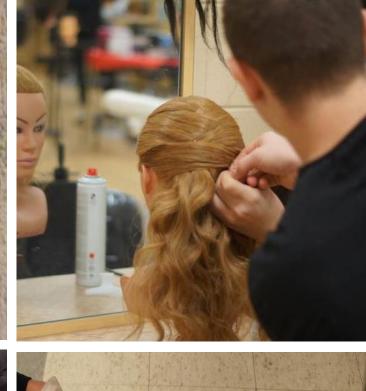
- Anatomy and Physiology
- Cleansing and Conditioning
- Hair Design and Shaping
- Chemical Hair Reformation
- Hair Colorization and De-colorization



- Skin Treatments and Make-up
- Manicuring and Pedicuring
- Sanitation and Sterilization
- State Law/State Board Preparation requires 1250 hours of attendance to be eligible
- Clinical Practices













Culinary Arts

- Basic Cooking & Food Preparation
- Soups & Stocks
- Sauces & Gravies
- Salads & Fruits
- Vegetables & Starches



- Meat, Poultry & Seafood Production
- Breakfast Production
- Appetizers & Specialty Desserts
- ► International Food Production
- Sanitation













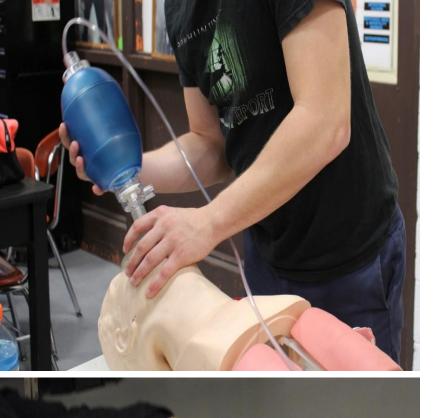
Emergency and Protective Services

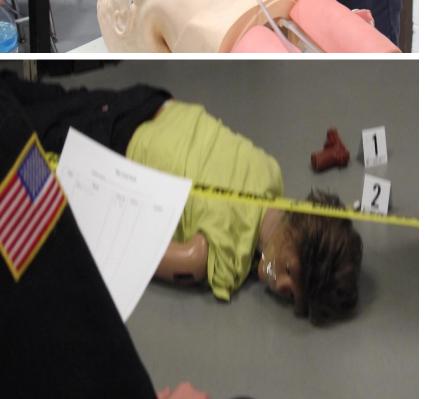


- Essentials of Firefighting Skills
- Fire and Emergency Activities
- Police and Security Procedures
- CPR Healthcare Provider



- Rescue Activities
- Physical Conditioning
- Homeland Security
- **Emergency Medical Procedures**











Health Assistant

What You Will Learn...

- Anatomy and Physiology
- Communication Skills
- Medical Records
- Ethics
- First Aid
- Prepare for Patient Care Technician certification



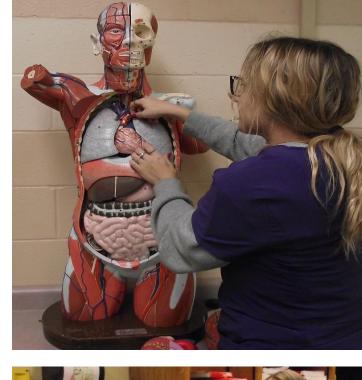


- Medical Terminology
- Diseases
- Infection Control
- ► Patient Care and Vital Signs

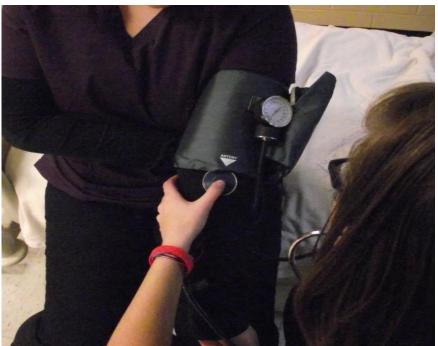














Information Technology

Networking

- Computer Hardware Repair and Maintenance
- Operating Systems and Software
- Network Technologies Tools and Troubleshooting

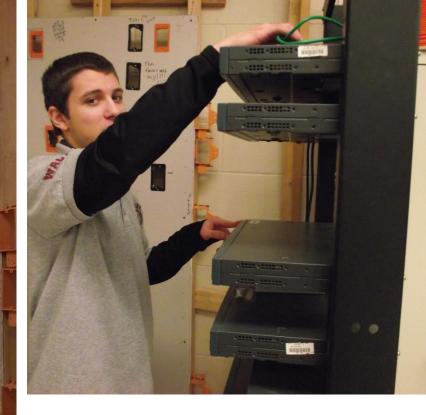


- Computer Components using A+
- Security Fundamentals
- Local Area Networking using Net+ and CISCO











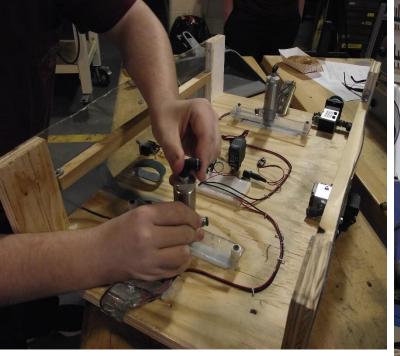
Manufacturing

Mechanical/Automation Technology



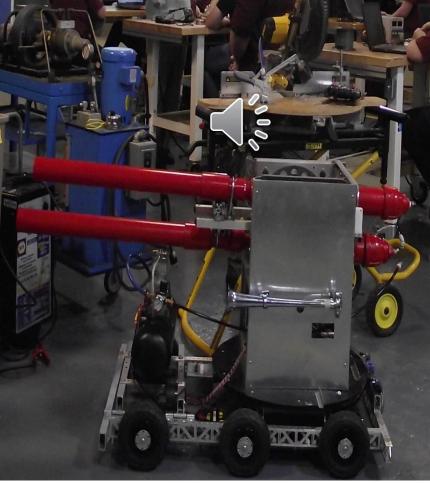
- ► AC/DC Motor Theory
- Basic Electronics
- Basic Electricity
- Basic CAD
- Basic Electrical Engineering

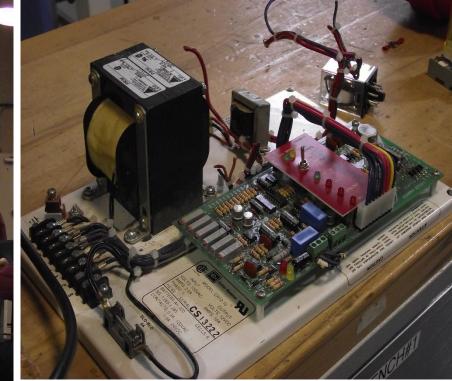
- PLC/HMI Programming
- Motor Controls
- OSHA Training
- NCCER Training













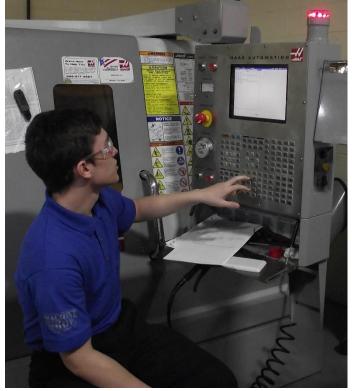
Machine Shop

- Blueprint Reading
- CNC Programming
- Drill Press and Grinding Machine Operations
- Lathe Operations

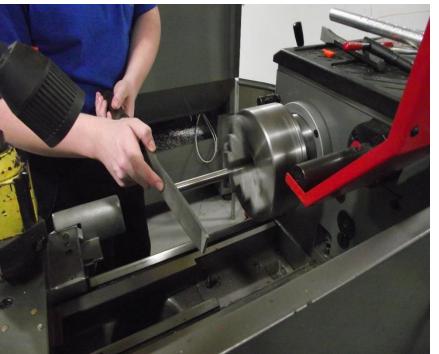


- Metallurgy
- Milling Operations
- Prepare for NIMS National Institute for Metalworking Skills certification













Welding

- Safety
- Tools and Equipment
- Blueprint Interpretation
- SMAW Shielded Metal Arc Welding
- Prepare for AWS certification



- GMAW Gas Metal Arc Welding
- FCAW Flux Cored Arc Welding
- GTAW Gas Tungsten Arc Welding
- OFCs Oxyfuel Gas Cutting types













Transportation, Distribution and Logistics

Auto Mechanics

- Automotive electrical systems
- Cooling and lubrication systems
- Ignition systems
- Steering and suspension systems
- Brake systems
- Fuel systems
- Wheel alignment



- Computerized engine controls
- Drive train systems
- ► Engine mechanical systems
- Restraint systems
- Electric and hybrid vehicle technology
- Alternate fuels
- Preventative maintenance





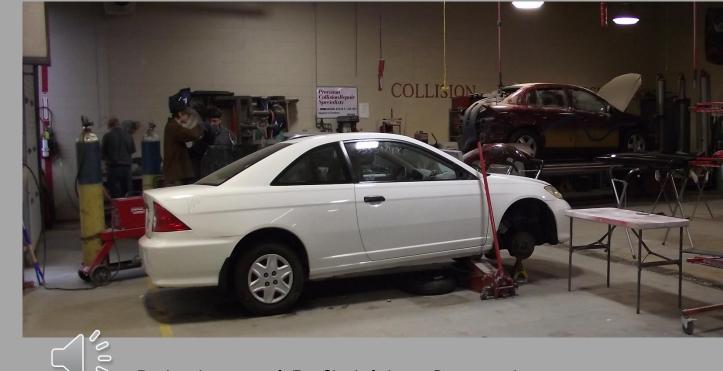






Collision Repair

- Safety
- Vehicle Detailing Process
- Non-Structural Repairs
- Structural Repairs
- Welding and Cutting Operation MIG, TIG



- Painting and Refinishing Operations
- ► Identification/Repair of plastic parts
- Damage Analysis













Grading

Work Ethics: Tasks: Attendance assigned Uniform Performance **Daily Activity Objectives**

Tests:

Assessments Assignments Work Logs

Next steps....

- ► Attend tour of Western Area arranged through district
- Schedule visit of 2 CTC program areas arrange through district Special Education teacher
- Complete application
- Participate in IEP revision meeting arranged through district Special Education teacher