What do you want to pursue? BCCTC may be right for you!

BCCTC Career Clusters

Advanced Manufacturing	Arts, design, IT & Media	Construction & Building Trades
Machine Tool Technology Welding	Business Information Systems Commercial Arts & Design Graphic Arts & Printing	Carpentry Electrical Occupations Masonry/Bricklaying HVAC-R
Healthcare/Medical	Service	Transportation & Distribution
Health Occupations Veterinary Assistant	Cosmetology Culinary Arts Greenhouse/Landscaping	Automotive Technology Collision Repair Technology Logistics & Materials Management

Machine Tool Technology

- Precision Machining & Measurement

- CNC Operating & Programming

- Manual Machine Operating

  BotsIQ Robotic Engineering & Competing

Industry Certifications

- The National Institute for Metalworking Skills

- NIMS Drill Press

- NIMS Job Planning, Benchwork, & Layout

- NIMS Manual Milling

- NIMS Measurement, Materials, & Safety

- NIMS Turning Operations: Turing Chucking

Potential Professions

- Computer Controlled Machine Tool Operators

- CNC Programmers

- Extruding and Drawing Machine Setters

- Machinists

- Manufacturing Production Technician

- Multiple Machine Tool Setters

- Robotics Technician

- Tool and Die Makers

Welding

- **Blueprint Reading & Welding Theory**

- **Oxy Fuel, Plasma Cutting – Manual & Mechanized**

- **Stick, MIG, Flux-Core & TIG**

- **Fabrication & Brazing Processes**

- **Metallurgy**

Industry Certifications

- **AWS or American Welding Society**

- **SMAW**

- **GMAW**

- **FCAW**

- **GTAW**

Potential Professions

- **Millwright**

- **Solderers & Brazers**

- **Structural Iron & Steel Workers**

- **Structural Metal Fabricators & Fitters**

- **Welders, Cutters, and Weld Fitters**

Business Information Systems

- **Business & Ethical Communications**
- **Business Management & Administration**
- **Computer Literacy ~ Internet Core Concepts**
- **Entrepreneurship**
- **Intro in Networking, Programming & Gaming**

Industry Certifications

- **Microsoft Office Specialist (MOS):**
- **Access**
- **Excel**
- **PowerPoint**
- **Word**
- **Internet and Computing Core (IC3)**
- **Computing Fundamentals**
- **Key Applications**
- **Living Online**

Potential Professions

- **Accounting**
- **Computer Network Support**
- **Computer Programmer**
- **Document Management**
- **Health Information Technician**
- **Human Resources**
- **Information Security Analyst**
- **Event Planner**
- **Sales Manager**
- **Video Game Designer**

Commercial Art & Design

- Airbrushing, Illustration & Typography
- Computer/Digital Imaging & Photography
- Conceptual Design/Layout & Color Techniques
- Drawing, Painting & Cartooning
- Engraving, Etching & Silk-Screening

Industry Certifications

- OSHA 10 General Industry
- Adobe Certified Associate

Potential Professions

- Commercial Designers
- Fashion Designer
- Interior Designer
- Multimedia Artists & Animators
- Post-secondary Art Instructor
- Secondary Art Teacher

Graphic Arts and Printing

- Graphic Design & Digital Photography

- Large Format Digital Printing

- Offset Printing, Bindery & Finishing

- Production of Vinyl Graphic Applications

- Screen Printing

Industry Certifications

- Adobe Certified Associate

- Cybersecurity Essentials for Work Training

- OSHA 10 General Industry

- PrintED

Potential Professions

- Commercial & Industrial Designer

- Desktop Publisher

- Graphic Designer

- Photographer

- Prepress Technician

- Printing Press Operator

Industry Certifications

Potential Professions

Carpentry

Blueprint Reading

Cabinetry & Finish Carpentry

Drywall, Roofing & Framing

Installation & Remodeling

Use of Hand & Power Tools

- NCCER

- PA Builders Skill Certificate

- Cabinetmakers & Bench Carpenters

- Carpenter Helper

- Construction & Building Inspector

- Construction Carpenter

- Construction Manager

- Drywall & Ceiling Tile Installers

- Rough Carpenter

- Roofer

Electrical Occupations

AC/DC Motors

Commercial/Industrial Wiring

Green Technologies

NEC Code

Residential House Wiring

Industry Certifications

- OHSA 10

- PA Builders Skill Certificate

Potential Professions

- Avionics Technicians
- Electrical & Electronics Repairers
- Electrical Engineering Technician
- Electrical Power-Line Installers
- Electrician
- Electrician Helper
- Hydroelectric Plant Technician
- Industrial Machinery Mechanics
- Power Distributors and Dispatchers
- Process Technician
- Signal & Track Switch Repairers
- Solar Photovoltaic Installer
- Wind Turbine Service Technician

HVAC-R

Diagnosing Installation

Preventative Maintenance

Schematic Reading

Servicing & Repairing

Industry Certifications

- Air Conditioning A-02
- Carbon Monoxide & Combustion Analysis
- C-11
- Carbon Monoxide Inspector
- C-12
- Electric Heat E-06
- Heat Pump H-03
- Residential & Light
- Commercial Hydronic Heat

Potential Professions

- Energy Engineer
- Geothermal Technician
- Heating & Air Conditioning Mechanics and Installers
- Mechanical Engineer
- Refrigeration Mechanic/Installer
- Piper Fitters and Steamfitters
- Sheet Metal Worker

Masonry/Bricklaying

Construction Block & Brick Walls

Creating Ornamental Masonry

Installing Natural or Cultured Stone

Laying Ceramic Tile

Pouring Concrete

Industry Certifications

- **PA Builders Skill Certificate**

Potential Professions

- **Brickmasons and Blockmasons**
- **Cement Masons and Concrete Finishers**
- **Masonry Helper**
- **Stonemasons**
- **Tile and Marble Setters**

Health Occupations

Anatomy & Physiology

Medical Terminology

Participation in Clinical Rotations

Patient Care Skills

Potential to Earn 5 Industry Certifications

Industry Certifications

- First Aide/Blood Born Pathogens
- Healthcare Provider AED
- Healthcare Provider CPR
- Stop the Bleed
- Nurse Aide on the PA Nurse Aide Registry

Potential Professions

- Clinical Nurse Specialist
- Dietetic Technicians
- Home Health Aide
- Licensed Practical Nurse
- Medical and Health Services Manager
- Medical Assistant
- Nurse Practitioner
- Nurse Anesthetists
- Occupational Therapist Assistant
- Physical Therapist Assistant
- Radiologist Technologists and Technicians
- Registered Nurse
- Speech Pathologist
- Surgical Technologist

Veterinary Assistant

- Anatomy & Physiology
- Laboratory Procedures
- Medical Terminology & Recording
- Physical Exams & Grooming
- Preventative Care, Vitals & Diseases

Industry Certifications

- Approved Veterinary Assistant Designation

Potential Professions

- Animal Scientist
- Food Scientist & Technologist
- Laboratory Animal Technician
- Veterinarian
- Veterinary Technician/Veterinary Technologist
- Zoologist and Wildlife Biologist

Cosmetology

Cosmetology Sciences & Theory

Hair Cutting & Styling

Nail Care & Nail Art

PA State Board Certification Exam Prep

Skin Facials & Product

Industry Certifications

- **PA Cosmetologist Licensure**

- **PA Manicurist**

Potential Professions

- **Chemist**

- **Cosmetology Instructor**

- **Hair Stylist Salon Manager**

- **Manicurist & Pedicurist**

- **Salon Owner**

- **Spa Manager**

- **State Board Inspector**

Culinary Arts

Baking & Pastry Arts

Catering

Customer Service

Gourmet & Fine Dining

Menu Planning & Nutrition

Industry Certifications

- **ProStart Certification**

- **ServSafe Certificate**

Potential Professions

- **Caterer**
- **Chefs & Head Cooks**
- **Dietitian and Nutritionist**
- **First Line Supervisors of Food Preparation & Serving Workers**
- **Food Scientists & Technologists**
- **Food Service Manager**
- **Meeting, Convention & Event Planners**
- **Waiters & Waitresses**

Greenhouse /Landscaping

Equipment Safety

Greenhouse Management

Hardscape Installation

Landscape & Floral Design

Plant Identification

Industry Certifications

- **PA Pesticide Applicator Certification**

Potential Professions

- Farm Labor Contractor
- Floral Designers
- Greenhouse/Nursery Worker and Gardener
- Landscape Architects
- Landscaping and Groundskeeper
- Lawn Care Manager
- Nursery & Greenhouse Manager
- Tree Trimmers and Pruners

Automotive Technology

Brakes

Electrical & Electronic Diagnosis

Engine Performance & Diagnosis

Safety & Maintenance

Steering & Suspension w/ Alignments

Basic Maintenance & Repair

Industry Certifications

- ALLDATA Certified Automotive Information Specialist
- ASE Student Certifications
- Certified Emissions Inspector
- EPA 609 Refrigerant Recycling Certification SP/2 Safety
- OHSA-10
- PA State Inspection
- SP/2 Mechanical Certification

Potential Professions

- Automotive & Watercraft Service Attendants
- Automotive Engineering Technicians
- Automotive Master Mechanics
- Bus & Truck Mechanics and Diesel Engine Specialists
- Electronic Equipment Installers & Repairers, Motor Vehicles
- Technicians

Collison Repair Technology

Damage Analysis

Metalworking & Fabrication

Painting & Detailing

Plasma Cutting & MIG Welding

Repairing & Replacing Parts

Industry Certifications

- ASE Student Certifications
- EPA 609 Refrigerant Recycling Certification
- I-Car Pro Level I
- PPG Partner in Education
- SP/2 Safety Certification

Potential Professions

- Aircraft Structure Related
- Alignment Technician
- Automotive Body & Related Repairers
- Detailer
- Fiberglass Fabricator
- Insurance Appraisers, Auto Damage
- Painter, Transportation Equipment

Logistics & Materials Management

Forklift Operation & Maneuvering

Inventory Management

Material Handling Methods

Shipping & Receiving Procedures

Warehousing & Distribution

Industry Certifications

- Certified Logistics Associate (CLA)
- Certified Logistics Technician (CLT)
- Fork Lift Operator National Safety Council (NSC)
- OSHA10 CareerSafe

Potential Professions

- Cargo & Freight Agents
- Logistic Manager
- Material Movers
- Shipping, Receiving and Traffic Clerks
- Transportation Managers
- Storage and Distribution Managers

Work Based Learning

At the Beaver County CTC, learning is not confined to the walls of a classroom. Through a program called Work-based Learning, students have the chance to experience firsthand about various jobs and careers.

The program includes three components:

Cooperative Education, **Job Shadowing**, and **Clinical Experience**. Each of these enables students to learn in work environments about job responsibilities.

Cooperative Education	Job Shadowing	Clinical Experience
Cooperative education, or co-op, is a unique plan of education that integrates classroom learning with related supervised work experience. Eligibility to participate in co-op is determined by meeting the criteria based on grades, attendance, and a recommendation from the Beaver County CTC instructor.	Job shadowing is a short-term experience during which students accompany workers as they go about their day performing duties in their everyday work environment. Students benefit from seeing work as it is performed in actual employment situations and enjoy learning firsthand from adults who have careers in fields that interest them.	Clinical experience is available to students enrolled in the Health Occupations program. Intended to provide valuable on-the-job training and insights, clinical experience takes students into the workplace for a period of time, during which they become involved in day-to-day operations and job functions. Clinical experience allows students to be exposed to the field they are considering.

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is Rewarded

STUDENT RECOGNITION

- **During CTC Enrollment**

- **Student Organizations**
There are program specific organizations and organization that are open to all students

- **Students of the Month**
student from each session of each program are recognized by instructors

Challenge Program

Sponsored by business partners and rewards student achievement and improvement

- **After CTC Enrollment**

Beaver County CTC Articulation Agreements

Program of Studies PA State Articulation Agreement

When a student meets the criteria for articulation, the student may receive advanced standing credits for a college or trade school or reduced tuition.
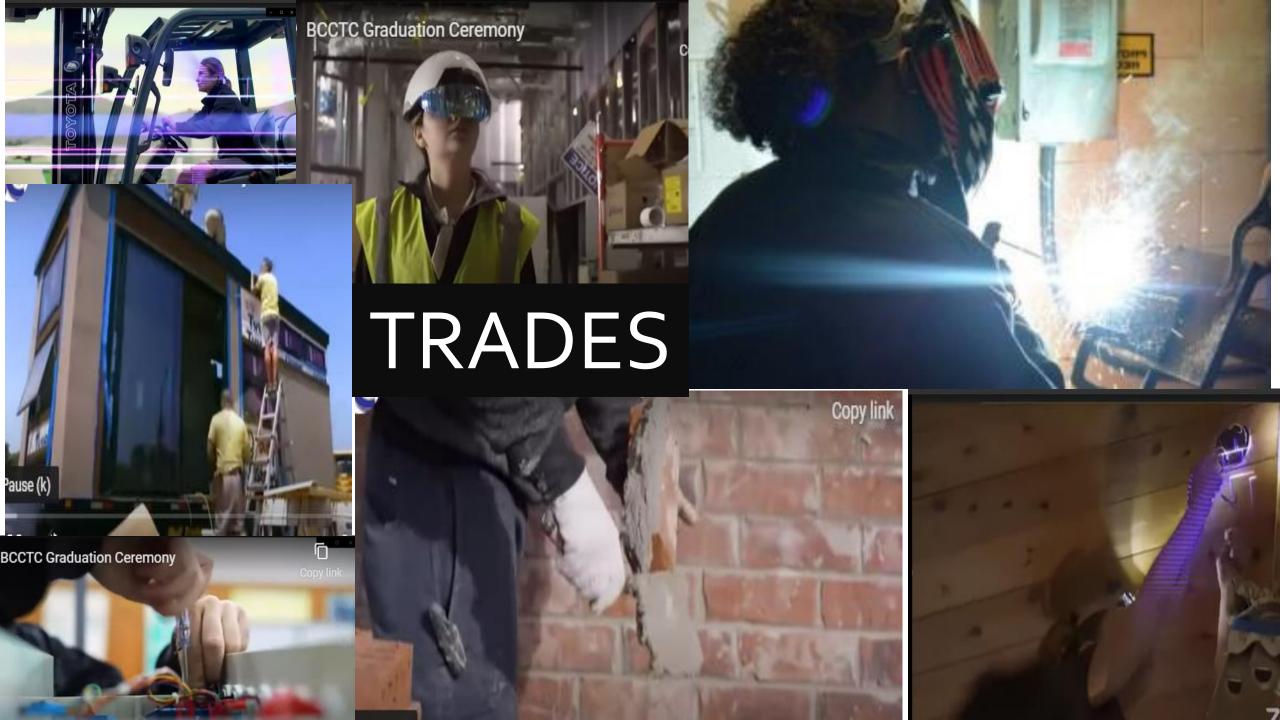
ARTICULATIONS

- [Articulation Agreements – Beaver County CTC (bcctc.org)](http://bcctc.org)

The Learning Center

The primary purpose of the learning center is to assist all students. Many students, for a variety of reasons are struggling with education. The learning center staff is available to provide reinforcement, modifications, and/or adaptations as outlined in individual learning plans

BCCTC Graduation Ceremony

TRADES

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BCCTC Graduation Ceremony

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If you like what you have seen and heard today, We look forward to meeting you. We hope that you have a chance to visit and enroll.

See you soon!

Contact information

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