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2023-2024**

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## *Why CTE?*

CTE classes will better prepare students to be both college and career ready.



# WHAT IS CAREER TECHNICAL EDUCATION?

West Virginia's Career Technical Education (CTE) programs empower students to explore potential careers in various hands-on, technical training programs. CTE programs not only teach students real-world knowledge and skills, but also provide opportunities for industry-recognized credentials and meaningful work-based learning experiences. CTE students gain hands-on experience to better understand and prepare for high-demand, real-world jobs.

## CTE PATHWAY FROM MIDDLE SCHOOL TO CAREER

Students can begin exploring CTE programs in middle school. Taking CTE courses in middle and high school can help students decide what direction to take after graduation. CTE classes will better prepare students to be both college and career ready.

### MIDDLE SCHOOL

- ▶ Explore CTE programs through Discover Your Future initiative

### GRADUATION

- ▶ Start your career or earn additional certifications

### CONTINUE YOUR EDUCATION

- ▶ Obtain a 1-year certification through an Advanced Career Education (ACE) program
- ▶ Complete your associates degree at a community college
- ▶ Earn your bachelor's or master's degree at a university

### HIGH SCHOOL

- ▶ Explore your interests by enrolling in a CTE class
- ▶ Earn licenses and credentials
- ▶ Earn college credit

### MILITARY

- ▶ Enroll in the military



## MIDDLE SCHOOL

### *Discover Your Future*

Middle school is a time of great exploration where students are discovering their futures and weighing the possibilities of a career, while attempting to identify what they are passionate about.

**Discover**  
**Your Future**

Discover Your Future is a new course developed with the cooperation of elementary and middle school teachers from across the state. Throughout the course, students in grades 6 – 8 will experience hands-on learning modules, guest speakers from industry, field trips, and partnerships with high school simulated workplace students.

Discover Your Future allows middle school students to find their passion and envision themselves doing something they love!

## HIGH SCHOOL

### *Simulated Workplace*

Simulated Workplace (SW) is an engaging learning environment that provides students with authentic workplace experiences and the skills they need to be successful in their careers and higher education. Simulated Workplace implements workplace protocols in the classroom that align with West Virginia workforce requirements, including random drug testing, professionalism, attendance, and safety. Simulated Workplace classrooms encourage students to take ownership of their education and future career success.

- ▶ SW is a drug-free work-based learning environment.
- ▶ All SW students are required to be drug tested.
- ▶ We are proud to boast a 98.4% drug-free rate.
- ▶ SW has a 97% student satisfaction rate.



*“Simulated Workplace turns OK students into great students and great students into leaders.”*

*– Former CTE Student*

## Classroom 2 Career

Classroom 2 Career builds work-based learning opportunities for West Virginia students. CTE offers a unique opportunity for students to learn first-hand how to succeed in the workplace through various work-based learning options including community service projects, clinicals, student teaching, internships, apprenticeships and more!



### CAREER SIMULATION



#### **Classroom Driven**

Implements workplace protocols in the classroom that align with West Virginia workforce requirements, including random drug testing, professionalism, attendance, and safety.

#### **Examples:**

- › Classroom Activity
- › Project-Based Learning

### CAREER LEARNING



#### **Community Driven**

Connects meaningful community service experiences with classroom learning and civic responsibility, allowing students to apply academic concepts to authentic projects in the community.

#### **Examples:**

- › Community Service Project
- › School-Based Enterprise

### CAREER PREPARATION



#### **Curriculum Driven**

Opportunity established by a CTE course that blends classroom instruction with work experience where students work with an employer for a specified period.

#### **Examples:**

- › Observations
- › Clinicals

### CAREER EXPERIENCE



#### **Employer Driven**

On-the-job training experience with an evaluation component that is designed to enhance technical instruction and academic competencies.

#### **Examples:**

- › Internship
- › On-the-Job Training

### CAREER APPRENTICESHIP



#### **U.S. DOL Driven**

U.S. Department of Labor-approved (DOL) apprenticeship that provides on-the-job training experience.

#### **Examples:**

- › U.S. Department of Labor Apprenticeship

## Resources

### **Classroom 2 Career Navigator ([wvclassroom2career.com](http://wvclassroom2career.com))**

A website that highlights college and career options for West Virginia students. Counselors, students, and families can access useful information about colleges, military, entrepreneurship, work-based learning and other resources to help guide decisions and career options beyond high school.

## COLLEGE

TECHNICAL SCHOOL	1 YEAR	COMMUNITY COLLEGE	2 YEARS	COLLEGES & UNIVERSITIES	4 YEARS
<p>Advanced Career Education (ACE) offers credentials, certifications, and licenses in growing industries across the state to make you more valuable in today's job market. The ACE Advantage program provides low-cost or tuition-free training options in West Virginia's fastest growing industries.</p>		<p>Nine community and technical colleges located across the Mountain State represent the West Virginia Community and Technical College System. No matter where you live in our state, a hands-on educational experience is close to home – and, thanks to West Virginia Invests, chances are you can get your credential for free!</p>		<p>West Virginia's four-year public higher education system includes 12 campuses that offer vast opportunities for a high-quality education at an affordable cost. Visit <a href="http://collegeforwv.com">collegeforwv.com</a> to learn more about the state scholarships and grants that can open these doors and help you get your start.</p>	

## MILITARY

During high school, students can participate in the Junior Reserve Officer Training Corps (JROTC) program. JROTC teaches students citizenship, leadership, character, and community service. The core values are at the heart of JROTC, whose creed emphasizes working to better the cadet's family, school, and country.

Visit [wvclassroom2career.com](http://wvclassroom2career.com) to learn more about career options within the military.

## CAREER

There are 16 CTE career clusters that offer fantastic opportunities for students to explore various potential careers in a wide range of fields and industries. The CTE career clusters help students discover their passion and empower them to choose a successful pathway after graduation.

Within each career cluster, students can choose a program of study to focus on. These programs enhance the high school experience and expand opportunities for students by allowing them to explore various careers within a particular field.



**CTE allows students to find their passion**



**CTE enhances the high school experience**



**CTE prepares students for the real world**



CAREERTECH WV

# AGRICULTURE, FOOD & NATURAL RESOURCES

## WHAT IS IT?

*Do you enjoy working with plants and animals? Interested in working to conserve natural resources or protect the environment? Agriculture, Food & Natural Resources is focused on the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products or resources.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Agribusiness Systems
- ▶ Animal Processing
- ▶ Animal Systems
- ▶ Forest Industry
- ▶ Natural Resources Management
- ▶ Pet Grooming
- ▶ Plant Systems
- ▶ Power, Structural and Technical Systems

## STUDENT CREDENTIALS:

- ▶ Beef Quality Assurance Certification
- ▶ Certified Logger - West Virginia Forestry Association
- ▶ Certified Professional Horticulturist
- ▶ FFA State Degree
- ▶ IADC Rigpass

## LEADS TO THESE CAREERS:

- ▶ Agribusiness Manager
- ▶ Butcher and Meat Cutter
- ▶ Environmental Engineering Technologist/Technician
- ▶ Forester
- ▶ Landscaping/Groundskeeping
- ▶ Meat, Poultry, Fish Cutter

## JOB OUTLOOK

### Forester



#### AVG SALARY

**\$61,770**



#### EDUCATION LEVEL

**Bachelor's Degree**



#### JOB OUTLOOK

**Stable**

### Environmental Engineering Technologist/ Technician



#### AVG SALARY

**\$53,110**



#### EDUCATION LEVEL

**Associate's Degree**



#### JOB OUTLOOK

**Stable**

### Meat, Poultry and Fish Cutter



#### AVG SALARY

**\$31,410**



#### EDUCATION LEVEL

**No standard requirement**



#### JOB OUTLOOK

**-**





# CAREERTECHWV ARCHITECTURE & CONSTRUCTION



## WHAT IS IT?

Do you want to use your skills to design, build, and maintain structures where people live, work, and play? Architecture & Construction is focused on careers in designing, planning, managing, building, and maintaining the built environment.

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Building Maintenance and Operations
- ▶ Carpentry
- ▶ Computer Aided Drafting and Design
- ▶ Electrical Technician
- ▶ HVAC Technician
- ▶ Masonry
- ▶ Plumbing

## STUDENT CREDENTIALS:

- ▶ American Design and Drafting Association (ADDA)
- ▶ Electrician Journeyman License
- ▶ EPA 608 Universal Certification
- ▶ NCCER - Core Certification & NCCER Craft Level 1 & 2 Certification

## LEADS TO THESE CAREERS:

- ▶ Architect
- ▶ Carpenter
- ▶ Construction & Building Inspector
- ▶ Construction Equipment Operator
- ▶ Construction Laborer
- ▶ Electrician

## JOB OUTLOOK

### Architect



#### AVG SALARY

**\$80,630**



#### EDUCATION LEVEL

**Bachelor's Degree**



#### JOB OUTLOOK

**Stable**

### Carpenter



#### AVG SALARY

**\$44,590**



#### EDUCATION LEVEL

**High school preferred, plus long term, on-the-job training**



#### JOB OUTLOOK

**Stable**

### Electrician



#### AVG SALARY

**\$55,390**



#### EDUCATION LEVEL

**Post-secondary training, plus on-the-job training**



#### JOB OUTLOOK

**Stable**



CAREERTECHWV

# ARTS, AUDIO/VIDEO TECHNOLOGY & COMMUNICATIONS

## WHAT IS IT?

Are you a good communicator? Do you love to use your artistic creativity on the job? Arts, Audio/Video Technology & Communications is focused on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content, such as visual and performing arts and design, journalism, and entertainment services.

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Broadcasting Technology
- ▶ Graphic Design
- ▶ Multimedia Publishing

## STUDENT CREDENTIALS:

- ▶ Adobe Certified Associate Certifications
- ▶ Adobe Certified Associate Video Design & Web Design Specialist
- ▶ Certified Broadcasting Technologist (CBT)

## LEADS TO THESE CAREERS:

- ▶ Audio/Video Technician
- ▶ Broadcast Technician
- ▶ Creative Writer/Poet
- ▶ Editor
- ▶ Graphic Designer
- ▶ News Reporter/Journalist

## JOB OUTLOOK

### Creative Writer/Poet



AVG SALARY

**\$64,640**



EDUCATION LEVEL

**Bachelor's Degree**



JOB OUTLOOK

**Stable**

### Graphic Designer



AVG SALARY

**\$49,800**



EDUCATION LEVEL

**Associate's Degree**



JOB OUTLOOK

**Stable**

### Audio/Video Technician



AVG SALARY

**\$36,830**



EDUCATION LEVEL

**One to two years post-secondary training**



JOB OUTLOOK

**Stable**



# CAREERTECHWV BUSINESS MANAGEMENT & ADMINISTRATION

## WHAT IS IT?

*Do you have an entrepreneurial spirit? Do you like to organize things and make decisions? Business Management and Administration is focused on planning, organizing, directing, and evaluating business functions essential to effective and productive business operations.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Administrative Support
- ▶ Career and Work Skills Training (CWST)
- ▶ Entrepreneurship & Innovation
- ▶ Principles of Business

## STUDENT CREDENTIALS:

- ▶ Concepts of Entrepreneurship and Management Certification
- ▶ Microsoft Office Specialist Certification

## LEADS TO THESE CAREERS:

- ▶ Executive Assistant
- ▶ General/Operations Manager
- ▶ Human Resource Manager
- ▶ Loan Officer
- ▶ Medical Secretary
- ▶ Receptionist

## JOB OUTLOOK

### General/Operations Manager



#### AVG SALARY

**\$85,960**



#### EDUCATION LEVEL

**Bachelor's Degree or higher,  
plus work experience**



#### JOB OUTLOOK

**Stable**

### Loan Officer



#### AVG SALARY

**\$59,640**



#### EDUCATION LEVEL

**Bachelor's Degree**



#### JOB OUTLOOK

**Stable**

### Receptionist/Information Clerk



#### AVG SALARY

**\$27,850**



#### EDUCATION LEVEL

**High school (GED), plus  
on-the-job training**



#### JOB OUTLOOK

**Stable**



CAREERTECHWV

# EDUCATION & TRAINING

## WHAT IS IT?

*Do you enjoy teaching and helping children? Are you comfortable with public speaking? Education & Training is focused on the knowledge, skills, attitudes, and practices of early childhood education.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Early Childhood Classroom Assistant Teacher (ECCAT)

## STUDENT CREDENTIALS:

- ▶ Apprenticeship for Child Development Specialist (ACDS)
- ▶ Early Childhood Classroom Assistant Teacher (ECCAT)
- ▶ Praxis Core Academic Skills for Educators (Core)

## LEADS TO THESE CAREERS:

- ▶ Early Childhood Assistant Teacher
- ▶ Kindergarten Teacher
- ▶ Elementary School Teacher
- ▶ Preschool Teacher
- ▶ Special Education Teaching Assistant
- ▶ Teaching Assistant

## JOB OUTLOOK

### Kindergarten Teacher



AVG SALARY

**\$51,530**



EDUCATION LEVEL

**Bachelor's Degree**



JOB OUTLOOK

**Stable**

### Teaching Assistant



AVG SALARY

**\$27,130**



EDUCATION LEVEL

**Associate's Degree**



JOB OUTLOOK

**Stable**

### Preschool Teacher



AVG SALARY

**\$34,760**



EDUCATION LEVEL

**Associate's Degree**



JOB OUTLOOK

**Stable**



# CAREERTECHWV FINANCE

## WHAT IS IT?

*Do you like to work with numbers? Do you want to help people be financially secure? Finance is focused on careers in financial and investment planning, banking, insurance, and business financial management.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Accounting & Finance

## STUDENT CREDENTIALS:

- ▶ Intuit QuickBooks Certified User (QBCU)
- ▶ Microsoft Office Specialist (MOS)-Excel Expert

## LEADS TO THESE CAREERS:

- ▶ Accountant
- ▶ Budget Analyst
- ▶ Credit Analyst
- ▶ Financial Analyst
- ▶ Financial Manager
- ▶ Tax Preparer

## JOB OUTLOOK

### Accountant



#### AVG SALARY

**\$69,480**



#### EDUCATION LEVEL

**Bachelor's Degree**



#### JOB OUTLOOK

**Stable**

### Budget Analyst



#### AVG SALARY

**\$70,520**



#### EDUCATION LEVEL

**Bachelor's Degree**



#### JOB OUTLOOK

**Stable**

### Tax Preparer



#### AVG SALARY

**\$31,030**



#### EDUCATION LEVEL

**High school preferred, plus moderate, on-the-job training**



#### JOB OUTLOOK

**Stable**



CAREERTECHWV

# GOVERNMENT & PUBLIC ADMINISTRATION

## WHAT IS IT?

Are you interested in government and politics? Does the idea of protecting our country appeal to you? Government & Public Administration is focused on planning and performing government functions at the local, state and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ JROTC

## STUDENT CREDENTIALS:

DoDI 1205.13 - 5.2.5.1. - Advanced Enlistment Promotion

## LEADS TO THESE CAREERS:

- ▶ Compliance Officer
- ▶ Emergency Management Director
- ▶ Government Relations Officer
- ▶ Legislator/Elected Official
- ▶ Municipal Clerk
- ▶ Social/Community Service Manager

## JOB OUTLOOK

### Legislator



AVG SALARY

**\$31,660**

EDUCATION LEVEL



**Bachelor's Degree or higher, plus work experience**



JOB OUTLOOK

**Stable**

### Social/Community Service Manager



AVG SALARY

**\$60,630**

EDUCATION LEVEL



**Bachelor's Degree**



JOB OUTLOOK

**Stable**

### Municipal Clerk



AVG SALARY

**\$35,990**

EDUCATION LEVEL



**High School (GED), plus on-the-job training**



JOB OUTLOOK

**Stable**



# CAREERTECHWV HEALTH SCIENCE

## WHAT IS IT?

*Do you have a passion for helping people? Are you interested in exploring the field of medicine? Health Science is focused on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnological research and development.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Advanced Medical Preparedness
- ▶ Allied Health Sciences
- ▶ Biomedical Science
- ▶ Dental Assisting
- ▶ Sports Medicine
- ▶ Therapeutic Services

## STUDENT CREDENTIALS:

- ▶ Biotechnician Assistant Credentialing Exam (BACE)
- ▶ Certified Electrocardiogram (ECG/EKG) Technician
- ▶ Certified Medical Assistant
- ▶ Certified Nursing Assistant (CNA)
- ▶ Certified Patient Care Technician
- ▶ Certified Phlebotomy Technician
- ▶ Clinical Medical Assistant (CCMA)
- ▶ Emergency Medical Technician (EMT) – (WV Certification & National Registry)
- ▶ Medical Laboratory Assistant
- ▶ ExCPT-Exam/Pharmacy Technician Certification Board (PTCB)
- ▶ Registered Dental Assistant Certification

## LEADS TO THESE CAREERS:

- ▶ Athletic Trainer
- ▶ Licensed Practical Nurse
- ▶ Pharmacy Technician
- ▶ Physical Therapist Assistant
- ▶ Registered Nurse
- ▶ Respiratory Therapist

## JOB OUTLOOK

### Registered Nurse



AVG SALARY

**\$65,130**



EDUCATION LEVEL

**Bachelor's Degree**



JOB OUTLOOK

**Stable**

### Physical Therapist Assistant



AVG SALARY

**\$54,930**



EDUCATION LEVEL

**Associate's Degree**



JOB OUTLOOK

**Increasing**

### Pharmacy Technician



AVG SALARY

**\$31,890**



EDUCATION LEVEL

**High School (GED), plus on-the-job training**



JOB OUTLOOK

**Stable**



# CAREERTECHWV HOSPITALITY & TOURISM

## WHAT IS IT?

*Do you like helping other people enjoy their free time? Would you like to work in a restaurant or hotel? Hospitality & Tourism is focused on the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel-related services.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Baking and Pastry
- ▶ Hospitality and Tourism
- ▶ ProStart Restaurant Management

## STUDENT CREDENTIALS:

- ▶ American Culinary Federation (ACF) Certified Fundamentals Cook (CFC) & Pastry Cook (CFPC)
- ▶ Certified Guest Service Professional (CGSP)
- ▶ Certified Hospitality & Tourism Management Professional (CHTMP)
- ▶ ServSafe Certification for Managers

## LEADS TO THESE CAREERS:

- ▶ Chef
- ▶ Concierge
- ▶ Entertainment/Recreation Supervisor
- ▶ Hotel/Motel Manager
- ▶ Meetings and Convention Planner
- ▶ Travel Agent

## JOB OUTLOOK

### Meetings and Convention Planner



#### AVG SALARY

**\$45,170**



#### EDUCATION LEVEL

**Bachelor's Degree**



#### JOB OUTLOOK

**Stable**

### Chef



#### AVG SALARY

**\$59,960**



#### EDUCATION LEVEL

**One to two years post-secondary training**



#### JOB OUTLOOK

**Stable**

### Hotel/Motel Manager



#### AVG SALARY

**\$56,660**



#### EDUCATION LEVEL

**Post-secondary training, plus work experience**



#### JOB OUTLOOK

**Stable**





CAREERTECHWV

# HUMAN SERVICES



## WHAT IS IT?

*Do you like helping others? Would you enjoy connecting families with assistance services? Human services is focused on providing family and individual services such as counseling and mental health, personal care, and consumer advice.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Human Services
- ▶ Pre-Cosmetology
- ▶ Sign Language Interpreter

## STUDENT CREDENTIALS:

- ▶ WV Board of Barbers & Cosmetologist License
- ▶ Pre-Professional Assessments & Certifications (Pre-PAC) in Family and Consumer Sciences

## LEADS TO THESE CAREERS:

- ▶ Barber
- ▶ Childcare Worker
- ▶ Counselor
- ▶ Hairdresser/Cosmetologist
- ▶ Social Worker
- ▶ Substance Abuse and Behavioral Disorder Counselor

## JOB OUTLOOK

### *Substance Abuse and Behavioral Disorder Counselor*



**AVG SALARY**

**\$38,830**



**EDUCATION LEVEL**

**Master's Degree**



**JOB OUTLOOK**

**Stable**

### *Social Worker*



**AVG SALARY**

**\$39,080**



**EDUCATION LEVEL**

**Bachelor's Degree**



**JOB OUTLOOK**

**Increasing**

### *Hairdresser/Cosmetologist*



**AVG SALARY**

**\$27,380**



**EDUCATION LEVEL**

**One to two years post-secondary training**



**JOB OUTLOOK**

**Stable**



CAREERTECHWV

# INFORMATION TECHNOLOGY

## WHAT IS IT?

*Are you a creative, tech-savvy person? Do you like to work with computers or network systems? Information Technology is focused on design, development, support, and management of hardware, software, Internet, multimedia, and systems integration services.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Cisco Networking Academies
- ▶ Coding, App and Game Design
- ▶ Computer Science
- ▶ Computer Systems Repair Technology
- ▶ Informatics (AC)
- ▶ Information Management
- ▶ Virtual Simulation and Game Development

## STUDENT CREDENTIALS:

- ▶ Autodesk Certification
- ▶ CCNA/Cisco Certified Entry Level Technician (CCENT)
- ▶ CompTIA+ 220-901 & 220-902
- ▶ CompTIA Network +N10-006 & +N10-007
- ▶ IC3 (Internet Core Competency Certification)
- ▶ Microsoft Office Specialist (MOS) & Master Certification

## LEADS TO THESE CAREERS:

- ▶ Applications Software Developer
- ▶ Computer Hardware Engineer
- ▶ Information Security Analyst
- ▶ School Technology Coordinator
- ▶ Telecommunications Equipment Installer/Repairer
- ▶ Web Developer

## JOB OUTLOOK

### Applications Software Developer



AVG SALARY

**\$81,770**



EDUCATION LEVEL

**Bachelor's Degree**



JOB OUTLOOK

**Increasing**

### Web Developer



AVG SALARY

**\$81,770**



EDUCATION LEVEL

**Associate's Degree**



JOB OUTLOOK

**Stable**

### Telecommunications Equipment Installer/Repairer



AVG SALARY

**\$59,250**



EDUCATION LEVEL

**Post-secondary training, plus on-the-job training**



JOB OUTLOOK

**Stable**



# CAREERTECHWV LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY



## WHAT IS IT?

Would you like to protect and serve? Do you want to help enforce the law? Law, Public Safety, Corrections & Security is focused on planning, managing, and providing legal, public safety, corrections, protective services, and homeland security, including professional and technical support.

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Emergency and Firefighting Management Services
- ▶ Law and Public Safety

## STUDENT CREDENTIALS:

- ▶ Association of Public-Safety Communications Officials (APCO)
- ▶ Certified Criminal Justice Professional
- ▶ Fire Fighter I & II - National Fire Protection Association Standard 1001
- ▶ National Incident Management System (NIMS) 100, 200, 700 & 800

## LEADS TO THESE CAREERS:

- ▶ Court Reporter
- ▶ Criminal Investigator
- ▶ Detective
- ▶ Emergency Management Officer (Military – Officer)
- ▶ Fire Inspector
- ▶ Lawyer

## JOB OUTLOOK

### Criminal Investigator



#### AVG SALARY

**\$91,710**



#### EDUCATION LEVEL

**Bachelor's Degree**



#### JOB OUTLOOK

**Stable**

### Court Reporter



#### AVG SALARY

**\$52,350**



#### EDUCATION LEVEL

**One to two years post-secondary training**



#### JOB OUTLOOK

**Increasing**

### Detective



#### AVG SALARY

**\$91,710**



#### EDUCATION LEVEL

**Post-secondary training, plus work experience**



#### JOB OUTLOOK

**Stable**



CAREERTECH WV

# MANUFACTURING



## WHAT IS IT?

*Are you a problem solver and troubleshooter? Do you enjoy designing things? Manufacturing is focused on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities, such as production planning and control, maintenance, and manufacturing/process engineering.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Aviation Maintenance Technician
- ▶ Industrial Equipment Maintenance
- ▶ Industrial Robotics
- ▶ Integrated Production Technologies (AC)
- ▶ Machine Tool Technology
- ▶ Millwork and Cabinetmaking
- ▶ Robotics
- ▶ Welding

## STUDENT CREDENTIALS:

- ▶ Electronics Technicians Association (ETA) CETa
- ▶ FAA Part 107 Remote Pilot Certification
- ▶ FANUC Certified Robot Operator-1 & 2
- ▶ National Institute for Metalworking Skills (NIMS)
- ▶ WV Welders Certification FCAW, GMAW, GTAW & SMAW Pipe

## LEADS TO THESE CAREERS:

- ▶ Industrial Machinery Mechanic
- ▶ Mechanical Engineering Technician
- ▶ Structural Metal Fabricator/Fitter
- ▶ Tool and Die Maker
- ▶ Welder/Cutter
- ▶ Wind Turbine Service Technician

## JOB OUTLOOK

### Mechanical Engineering Technician



**AVG SALARY**

**\$57,080**



**EDUCATION LEVEL**

**Associate's Degree**



**JOB OUTLOOK**

**Stable**

### Industrial Machinery Mechanic



**AVG SALARY**

**\$52,570**



**EDUCATION LEVEL**

**One to two years post-secondary training**



**JOB OUTLOOK**

**Stable**

### Welder/Cutter



**AVG SALARY**

**\$50,440**



**EDUCATION LEVEL**

**High school preferred, plus moderate, on-the-job training**



**JOB OUTLOOK**

**Stable**



# CAREERTECHWV MARKETING

## WHAT IS IT?

*Are you a go-getter that enjoys selling products? Are you friendly, outgoing, and creative? Marketing is focused on planning, managing, and performing marketing activities to reach organizational objectives.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Marketing Management

## STUDENT CREDENTIALS:

- ▶ Concepts of Entrepreneurship and Management Certification
- ▶ Microsoft Office Specialist Certification

## LEADS TO THESE CAREERS:

- ▶ Fundraising Manager
- ▶ Grant Writer
- ▶ Insurance Sales Agent
- ▶ Interior Designer
- ▶ Pharmaceutical Sales Representative
- ▶ Real Estate Sales Agent

## JOB OUTLOOK

### *Fundraising Manager*



#### AVG SALARY

**\$86,500**

#### EDUCATION LEVEL



**Bachelor's Degree or higher,  
plus work experience**



#### JOB OUTLOOK

**Stable**

### *Insurance Sales Agent*



#### AVG SALARY

**\$51,650**

#### EDUCATION LEVEL



**One to two years  
post-secondary training**



#### JOB OUTLOOK

**Increasing**

### *Real Estate Sales Agent*



#### AVG SALARY

**\$66,280**

#### EDUCATION LEVEL

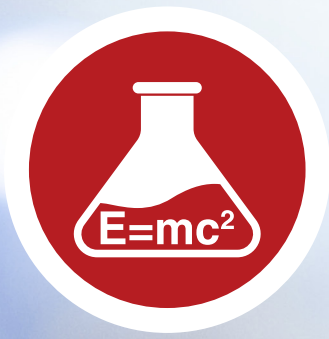


**One to two years  
post-secondary training**



#### JOB OUTLOOK

**Stable**



# CAREERTECHWV SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

## WHAT IS IT?

*Do you enjoy solving problems? Do you like science or math? Science, Technology, Engineering & Mathematics (STEM) is focused on planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering), including laboratory and testing services, and research and development services.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Aerospace Engineering (AC)
- ▶ Energy and Power (AC)
- ▶ Pre-Engineering

## STUDENT CREDENTIALS:

- ▶ American Design and Drafting Association (ADDA)
- ▶ REC Foundation Pre-Engineering and Robotics Industry Certifications

## LEADS TO THESE CAREERS:

- ▶ Chemical Engineer
- ▶ Civil Engineer
- ▶ Environmental Science Technician
- ▶ Petroleum Engineer
- ▶ Robotics Technician
- ▶ Surveying Technician

## JOB OUTLOOK

### Chemical Engineer



#### AVG SALARY

**\$119,250**



#### EDUCATION LEVEL

**Bachelor's Degree**



#### JOB OUTLOOK

**Increasing**

### Environmental Science Technician



#### AVG SALARY

**\$45,150**



#### EDUCATION LEVEL

**One to two years  
post-secondary training**



#### JOB OUTLOOK

**Stable**

### Surveying Technician



#### AVG SALARY

**\$44,640**



#### EDUCATION LEVEL

**High school preferred, plus  
moderate length, on-the-job  
training**



#### JOB OUTLOOK

**Stable**



CAREERTECHWV

# TRANSPORTATION, DISTRIBUTION & LOGISTICS

## WHAT IS IT?

*Does the idea of repairing vehicles, trains, and planes appeal to you? Are you detail-oriented and like to work with your hands? Transportation, Distribution & Logistics is focused on planning and managing the movement of people, materials, and goods by road, pipeline, air, rail, and water. Professional support services like logistics services and mobile equipment and facility maintenance are also part of this cluster.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Automotive Technology
- ▶ Collision Repair Technology
- ▶ Diesel Equipment Technology
- ▶ Global Logistics and Supply Chain Management (AC)
- ▶ Power Equipment Systems

## STUDENT CREDENTIALS:

- ▶ Automotive Service Excellence (ASE) Entry-Level Certification
- ▶ Caterpillar-CAT Basic Certifications
- ▶ Equipment and Engine Training Counsel (EETC)-Small Engine Certification

## LEADS TO THESE CAREERS:

- ▶ Aircraft Mechanic
- ▶ Automotive Engineering Technician
- ▶ Brownfield Redevelopment Specialist
- ▶ Commercial Pilot
- ▶ Diesel Engine Mechanic
- ▶ Heavy Truck Driver

## JOB OUTLOOK

### Commercial Pilot



AVG SALARY

**\$81,810**



EDUCATION LEVEL

**Bachelor's Degree**



JOB OUTLOOK

**Stable**

### Automotive Engineering Technician



AVG SALARY

**\$57,080**



EDUCATION LEVEL

**Associate's Degree**



JOB OUTLOOK

**Increasing**

### Heavy Truck Driver



AVG SALARY

**\$44,080**



EDUCATION LEVEL

**Post-secondary training,  
plus on-the-job training**



JOB OUTLOOK

**Stable**



# CAREERTECHWV WEST VIRGINIA SPECIFIC CAREER CLUSTER



## WHAT IS IT?

*The West Virginia Specific Career Cluster is designed to provide a personalized opportunity to complete Career Technical Education courses based upon individual students' pathway.*

## HIGH SCHOOL PROGRAMS OF STUDY:

- ▶ Career Integrated Experiential Learning (CIEL): A personalized CTE program of study developed to meet student career aspirations by providing them marketable job skills and opportunities to test for nationally recognized certifications.
- ▶ Individual Work Ready Competencies (IWRC): A state-approved CTE career pathway which provides students with an Individualized Education Program (IEP), the opportunity to gain valuable work readiness and occupational skills as determined by the Student Assistance Team.



# EMPOWERING STUDENTS TO OPEN THE DOORS OF OPPORTUNITY



# STUDENT OPPORTUNITIES



Career Technical Education provides many opportunities to help guide students in developing a career path and gain the skills needed to be successful in their career. Career and Technical Student Organizations (CTSOs) extend teaching and learning through innovative programs, business and community partnerships and leadership experiences at the school, state and national levels.



**DECA** prepares emerging leaders and entrepreneurs in marketing, finance, hospitality, and management in high schools and colleges around the globe. DECA activities provide members with opportunities to serve in leadership roles, work in teams, and receive local, state, and national recognition.



**Educators Rising** is committed to developing and supporting the next generation of highly skilled educators through hands-on experience, leadership, and collaboration.



**Family, Career and Community Leaders of America (FCCLA)** is a student lead organization that upholds its promise of being 'The Ultimate Leadership Experience'. Family and Consumer Sciences students across the country learn to become well-prepared leaders that leave school career ready.



**Future Business Leaders of America (FBLA)** inspires and prepares students to become community-minded business leaders in a global society through relevant career preparation and leadership experiences.



**Future Farmers of America (FFA)** is a dynamic youth organization that changes lives and prepares members for premier leadership, personal growth and career success through agricultural education.



**HOSA**-Future Health Professionals is a student-led organization, whose mission is to promote career opportunities in the health industry and to enhance the delivery of quality health care to all people.



The mission of the **Junior Reserve Officer Training Corps** (JROTC) is to teach students citizenship, leadership, character, and community service. The core values are at the heart of JROTC, whose creed emphasizes working to better the cadet's family, school, and country.



**ProStart** is a two-year, industry-backed culinary arts and restaurant management program for high school students. ProStart students finish the program ready to join the workforce and make an immediate impact in restaurants and foodservice. ProStart students are closely connected to industry experts through guest speakers, class mentors, tours of local facilities, hosting student competitions, and more – all to ensure real-world experience is brought directly to the classroom.



**SkillsUSA** empowers its members to become world-class workers, leaders and responsible American citizens. SkillsUSA improves the quality of our nation's future skilled workforce through the development of SkillsUSA Framework skills that include personal, workplace, and technical skills grounded in academics.



**Technology Student Association** (TSA) fosters personal growth, leadership, and opportunities in technology, innovation, design, and engineering. Members apply and integrate science, technology, engineering and mathematics concepts through co-curricular activities, competitive events, and related programs.







Michele L. Blatt  
West Virginia Superintendent of Schools

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**wvde.us**