



## AUTOMOTIVE BODY REPAIR

### WHAT WILL I LEARN?

The CTE Automotive Body Repair Program prepares students to apply technical knowledge and skills to repair damaged vehicles such as automobiles and light trucks. Students learn to examine damage and estimate cost of repairs; straighten bent frames and unibody structures using hydraulic jacks and a laser alignment machine; remove and replace glass; file, grind and sand repaired surfaces using power tools and hand tools. Water-based paints are computer matched and applied in the state-of-the-art paint booth to restore the car's factory finish.

### CERTIFICATIONS AVAILABLE:

Automotive Service Excellence (ASE); Safety and Pollution Prevention (S/P2); Motor Oil

### HOW MUCH CAN I EARN?

In PA, **between \$13.25/hour** (entry level) and **\$32.83/hour** (advanced level).



## AUTOMOTIVE TECHNOLOGY

### WHAT WILL I LEARN?

In the CTE Automotive Technology Program, students learn about preventative automobile maintenance and troubleshooting. The program incorporates instruction in the diagnosis and testing—including computer analysis—of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems, plus drive train and suspension systems. Instruction is also given in the adjustment and repair of cooling systems and includes the use of technical repair information and the state inspection procedures.

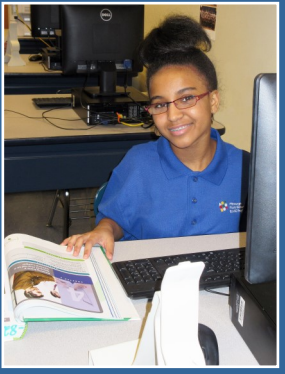
This program is offered at **Pittsburgh Brashear**.

### CERTIFICATIONS AVAILABLE:

Automotive Service Excellence (ASE); Safety and Pollution Prevention (S/P2)

### HOW MUCH CAN I EARN?

In PA, **between \$10.41/hour** (entry level) and **\$29.04/hour** (advanced level).



## B.A.S.E. PROGRAM

### WHAT WILL I LEARN?

In the Business Administration, Sports & Entertainment (B.A.S.E.) Program, students will learn about business administration—with a sports marketing focus (topics include media, sales, events, law, and ethics). They will also participate in real life learning opportunities including field trips, mentoring, job shadowing and more. **CTE has a partnership with Point Park University for this program.**

B.A.S.E. is offered at **Pittsburgh Westinghouse**.

### CERTIFICATIONS AVAILABLE:

Microsoft Office Application Specialist (Access, Excel, Outlook, PowerPoint, Word)

### HOW MUCH CAN I EARN?

In PA, **between \$10.34/hour** (entry level) and **\$24.31/hour** (advanced level).



## CARPENTRY PROGRAM

### WHAT WILL I LEARN?

This program prepares students to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques. **CTE has a partnership with the Keystone Mountain Lakes Regional Council of Carpenters for this program.**

Carpentry is offered at **Pittsburgh Carrick** and **Pittsburgh Westinghouse**.

### CERTIFICATIONS AVAILABLE:

American Ladder Institute; OSHA (Construction Industry); Safety & Pollution Prevention (S/P2) Construction

### HOW MUCH CAN I EARN?

In PA, **between \$13.75/hour** (entry level) and **\$38.90/hour** (advanced level).



## COSMETOLOGY PROGRAM

### WHAT WILL I LEARN?

This program prepares students to apply technical knowledge and skills related to a variety of care and beauty treatments for the hair, complexion and hands. Instruction includes hair styling, setting, cutting, coloring, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. **Instruction is designed to qualify pupils for the state licensing examination.**

This program is offered at **Pittsburgh Perry** and **Pittsburgh Westinghouse**.

### CERTIFICATIONS AVAILABLE:

Pennsylvania State Cosmetology License; Safety & Pollution Prevention (S/P2) Cosmetology

### HOW MUCH CAN I EARN?

In PA, **between \$8.02/hour** (entry level) and **\$19.83/hour** (advanced level).



## CULINARY ARTS

### WHAT WILL I LEARN?

This program provides fundamental skills needed for employment in the food service industry at entry level. Immersed in the culinary world, students master the use of food preparation equipment and tools, menu planning principles, effective communication, math calculations, safety and sanitation, workflow between dining room and kitchen operations, recipe conversions and more. Students apply skills through the operation of an on-site café.

This program is offered at **Pittsburgh Carrick** and **Pittsburgh Westinghouse**.

*CCAC Dual Enrollment Credits are available.*

### CERTIFICATIONS AVAILABLE:

ServSafe Food Manager; ServSafe Food Handler; Safety & Pollution Prevention (S/P2) Culinary

### HOW MUCH CAN I EARN?

In PA, **between \$8.31/hour** (entry level) and **\$17.67/hour** (advanced level).



## EARLY CHILDHOOD EDUCATION

### WHAT WILL I LEARN?

The CTE Early Childhood Education Program is designed to teach students the aspects of teaching and working with young children, from birth through elementary age. Students will explore career pathways and develop the characteristics of successful teachers and childcare providers through practicums. Applying theoretical concepts to real-life situations, students are able to take what they have learned in the classroom into their supervised rotation experiences in childcare settings, where they will learn how to meet the developmental needs and interests of young children.

This program is offered at **Pittsburgh Milliones 6-12**.

### CERTIFICATIONS AVAILABLE:

First Aid; Pediatric CPR; Child Development Associate (CDA) Infant Toddler; Child Development Associate (CDA) Pre-School

### HOW MUCH CAN I EARN?

In PA, **between \$9.37/hour** (entry level) and **\$19.56/hour** (advanced level).



## EMERGENCY RESPONSE TECHNOLOGY

### WHAT WILL I LEARN?

The Emergency Response Technology (ERT) program prepares students to apply the technical knowledge & skills required to perform entry level duties in fire fighting, emergency medical services, & law enforcement. Physical development & self-confidence skills are emphasized due to the nature of the specific occupations. Students will apply their knowledge of math, physics, civics & communication while performing skills in the areas of criminal justice, fire safety, emergency management & pre-hospital care. This program is offered at **Pittsburgh Westinghouse**.

### CERTIFICATIONS AVAILABLE:

Pennsylvania EMT; First Responder; PA Essentials of Firefighting; Basic Life Support for Health Care Professionals

### HOW MUCH CAN I EARN?

<b>Firefighter</b>	\$13.96	\$38.45/hour in PA
<b>Paramedic</b>	\$10.02	\$23.75/hour in PA
<b>Police</b>	\$16.70	\$46.52/hour in PA
	<b>ENTRY LEVEL</b>	<b>ADVANCED LEVEL</b>

## CAREER & TECHNICAL EDUCATION CONTACT INFORMATION

**Website:** <http://www.pghschools.org/cte>

**Apply Now:** <http://www.pghschools.org/cteapplication>

**Virtual Tour:** <http://www.pghschools.org/cte-vtour>

**Email:** [cte@pghschools.org](mailto:cte@pghschools.org)

**Phone:** 412-529-8684

**f** [www.facebook.com/PPS.CTE](https://www.facebook.com/PPS.CTE)

**🐦** @pps\_cte



# Students first

*Always, in all ways.*

The Pittsburgh Public Schools (PPS) does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs, activities, career and technical education programs or employment and provides equal access to the Boy Scouts and other designated youth groups. Inquiries may be directed to the Title IX Coordinator or the Section 504/ADA Title II Coordinator at 341 Bellfield Ave, Pittsburgh, PA 15213 or 412.529.HELP (4357).



## ENGINEERING PROGRAM

### WHAT WILL I LEARN?

The CTE Engineering program exposes students to different types of engineering - including civil, mechanical, electrical and green. In this STEM program, they learn about problem solving, teamwork, fundamental electronics systems, engineering graphics, green energy, the properties of natural, composite and synthetic material, and total quality control. Our students are designing solutions for real life using the engineering design process.

This two-year program is offered to rising 11th grade students at Pittsburgh Allderdice.

**CERTIFICATIONS AVAILABLE:**  
Autodesk Certified User

### HOW MUCH CAN I EARN?

In PA, **between \$15.03/hour** (entry level) **and \$40.94/hour** (advanced level).



## ENTERTAINMENT TECHNOLOGY

### WHAT WILL I LEARN?

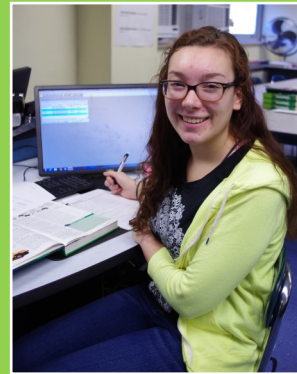
This program of study prepares students to provide services in a variety of areas including video, audio, and television production; animation, and photography. **There are more opportunities for success behind the scenes in the entertainment industry than on center stage.** The Entertainment Technology program can help students get onto an exciting career path. **CTE has a partnership with Point Park University for this program.**

This program is offered at **Pittsburgh Milliones 6-12**.

**CERTIFICATIONS AVAILABLE:**  
Adobe Certified Associate (ACA)—Web Communication;  
ACA—Video Communication;  
ACA—Visual Communication

### HOW MUCH CAN I EARN?

In PA, **between \$14.48/hour** (entry level) **and \$48.34/hour** (advanced level).



## FINANCE TECHNOLOGY

### WHAT WILL I LEARN?

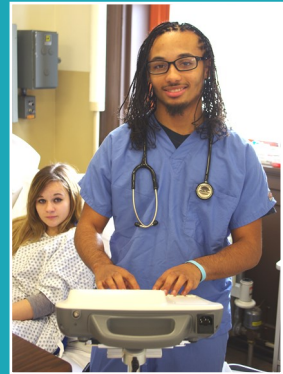
Students learn how to use generally accepted accounting principles in manual and computerized formats. Instruction will be provided on entering transactions into journals, posting transactions to accounts, balancing records, preparing financial statements and completing tax reports. Included in this course are lessons relating to business ethics, business law, office procedures and public relations. Students are provided experiences and instruction needed to satisfy initial employment requirements for accounting, computing and data capturing occupations.

This program is offered at **Pittsburgh Carrick**.

**CERTIFICATIONS AVAILABLE:**  
Microsoft Office Application Specialist (Word, PowerPoint, Excel, Outlook)

### HOW MUCH CAN I EARN?

In PA, **between \$11.85/hour** (entry level) **and \$27.63/hour** (advanced level).



## HEALTH CAREERS TECHNOLOGY

### WHAT WILL I LEARN?

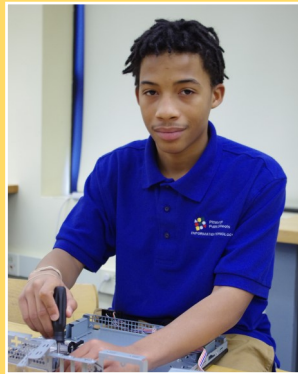
This program includes planned courses in medical terminology, anatomy and physiology, clinical laboratory procedures, basic clinical skills, aseptic techniques, OSHA regulations and infection control. The program includes field experience in extended classrooms within settings concerned with technical functions to obtain data for use in diagnosis, treatment and control of disease. Instruction also includes the use of technical equipment.

This program is offered at **Pittsburgh Carrick, Pittsburgh Perry and Pittsburgh Westinghouse**.

**CERTIFICATIONS AVAILABLE:**  
Basic Life Support for Health Care Professionals;  
Heartsaver CPR; Heartsaver AED; Personal Care Home Direct Care Staff Certificate

### HOW MUCH CAN I EARN?

In PA, **between \$13.31/hour** (entry level) **and \$30.48/hour** (advanced level).



## INFORMATION TECHNOLOGY

### WHAT WILL I LEARN?

This program focuses on the design, implementation and management of linked systems of computers, peripherals and associated software and prepares students with the technical skills required to support networks and network users. The program includes instruction in networks technologies and standards: system design, architecture, operating systems, security, communications protocols, client support, messaging services, network management, troubleshooting and server optimization.

This program is offered at **Pittsburgh Carrick**.

**CERTIFICATIONS AVAILABLE:**  
Microsoft Technology Associate (MTA)

### HOW MUCH CAN I EARN?

In PA, earn **between \$18.07/hour** (entry level) **and \$48.93/hour** (advanced level).



## MACHINE OPERATIONS

### WHAT WILL I LEARN?

This program prepares students to apply technical knowledge and skills in all aspects of shaping metal parts. Emphasis is placed upon bench work and the operation of lathes, power saws, shapers, milling machines, grinders, drills and computer operated equipment (CNC and CIM). Instruction includes the use of precision measuring instruments; methods of machining and heat treatment of various metals; blueprint reading; and the layout of machine parts. Instruction prepares students to operate all types of hand and computer controlled machines.

This program is offered at **Pittsburgh Brashear**.

**CERTIFICATIONS AVAILABLE:**  
National Institute for Metalworking Skills (NIMS)

### HOW MUCH CAN I EARN?

In PA, earn **between \$17.66/hour** (entry level) **and \$36.61/hour** (advanced level).



## MULTIMEDIA PRODUCTION AND CODING

### WHAT WILL I LEARN?

The Multimedia Production and Coding (M-PAC) program prepares students to apply HTML, XML, JavaScript, graphics applications and other authoring tools to design, edit and publish documents, images, graphics, sound and multimedia products on the World Wide Web. Instruction includes coding, mobile app development, Internet theory, web page standards and policies, elements of web page design, user interfaces, vector tools, special effects, interactive and multimedia components, search engines, navigation, morphing, e-commerce tools and emerging web technologies.

**CERTIFICATIONS AVAILABLE:**  
Adobe Certified Associate (ACA) - Web Communication (Dreamweaver); ACA - Visual Communication Using Adobe Photoshop; OSHA

### HOW MUCH CAN I EARN?

In PA, earn **between \$18.14/hour** (entry level) **and \$53.15/hour** (advanced level).



## RHVAC PROGRAM

### WHAT WILL I LEARN?

The Refrigeration, Heating, Ventilation and Air Conditioning (RHVAC) program prepares students to apply technical knowledge and skills to install, repair and maintain commercial and residential heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; blueprint reading; use of technical reference manuals; and the diagnosis of malfunctions.

This program is offered at **Pittsburgh Allderdice**.

*CCAC Dual Enrollment Credits are available.*

**CERTIFICATIONS AVAILABLE:**  
EPA 608; OSHA (Construction Industry); American Ladder Institute

### HOW MUCH CAN I EARN?

In PA, earn **between \$14.88/hour** (entry level) **and \$36.04/hour** (advanced level).

## CAREER & TECHNICAL EDUCATION QUICK FACTS



## SUCCESS PREP

- Starting in grade 10, CTE programs are offered 3 periods a day, every day for 3 years.
- CTE offers **dual enrollment credits** through several of its programs, so **students can earn college credits while they are still in high school.**
- All CTE programs of study prepare students for entry level employment **and** post-secondary education.
- All CTE programs of study help prepare students for jobs that are in-demand by employers, have higher skill needs, and are likely to provide family-sustaining wages.
- Students can earn **valuable industry certifications** through CTE while in high school, at **no cost to parents.**
- CTE programs house state-of-the-art equipment to replicate current industry standards.