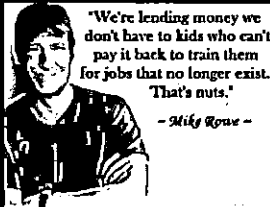




1

Agenda


- What is Power Technical Early College (PTEC)?
- Mission & Vision
- Courses and Pathways
- PTEC Connect
- Character & Work Ethic
- Degrees & Stackable Certifications
- Questions & Comments

A quote by Mike Rowe is shown next to a small photo of him. The quote reads: "We're lending money we don't have to kids who can't pay it back to train them for jobs that no longer exist. That's nuts." - Mike Rowe -

2

What is Power Technical Early College (PTEC)?

- The 5th school in the James Irwin family of schools.
- A charter school in District 49 and part of the James Irwin network.
- A middle school and high school.
- A Pathways In Technology (P-Tech) school.

A small image shows a person sitting at a desk, working on a computer. The person is wearing a dark shirt and is looking at the screen.

3

PTEC Mission & Vision

The mission of PTEC is to prepare students to enter the workforce with the skills necessary to be successful in a trade while also having the character and work ethic to become the most valuable members in their chosen trade.

The vision of PTEC is that students who graduate from this school will have the necessary skills to be workforce ready in a world that demands firm mathematical, technological, and communication expertise. Graduates from PTEC will possess the work ethic and positive character traits that will not only allow them to be successful, but to also have the fortitude to rise to the top of their respective trades.

4

Power Technical Early College

- Grades 6 - 12
- Traditional Curriculum
 - > Mathematics
 - > Science
 - > English
 - > History
- Trade Courses (90 min/day)
 - > 6th & 7th Grade: Industrial Arts
 - > 8th / 9th Grade: Introduction To Woodshop / Introduction To Welding
Introduction To Construction / Introduction To Machining



5

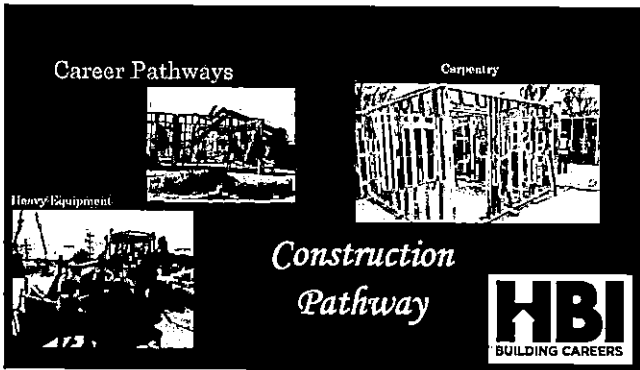
Career Pathways

- Machining Technology 1-4
- Welding Technology 1-4
- Construction Technology 1-4
- Fundamentals of Engineering 1-4
- Pikes Peak Community College



6

Career Pathways



Heavy Equipment

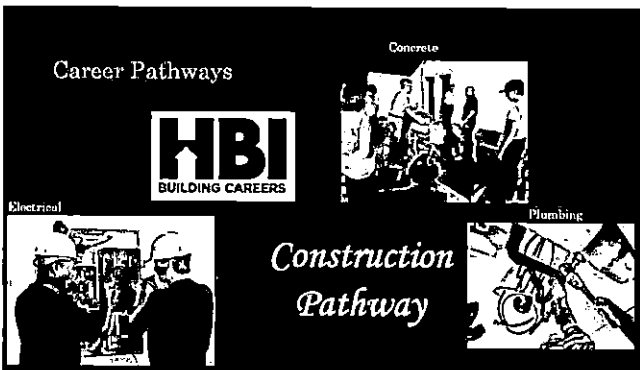
Carpentry

Construction Pathway

HBI
BUILDING CAREERS

7

Career Pathways



Concrete

Electrical

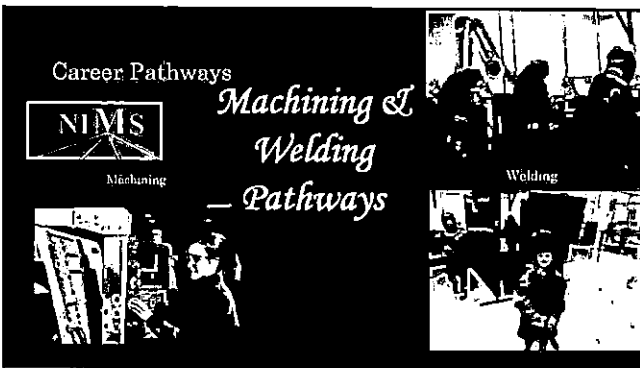
Plumbing

Construction Pathway

HBI
BUILDING CAREERS

8

Career Pathways



NIMS

Machining


Welding

Machining & Welding Pathways

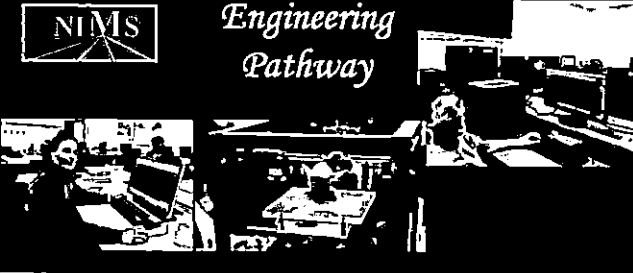
9

Career Pathways

Computer Aided Design (CAD) & 3D Printing



Engineering Pathway



10

PTEC Connect

- Student Professional Development
- Cross Curricular Lesson Planning & Teaching
- Student Projects
- Business & Community Involvement
- Tours, Apprenticeships, & Internships




11

PTEC Connect

- Character & Work Ethic
- Student Presentations
- Community Demonstrations
- Tool and Equipment Demonstrations




12

Character & Work Ethic

- Age & Grade Appropriate
 - > Study Skills, Peer Pressure, & Bullying
 - > Setting Goals, Time Management, & Peer Relationships
 - > Work Ethic, & Health and Wellness
 - > Character & Ethics / Speech Communication
 - > Leadership & Citizenship
 - > Business Management & Financial Ethics
 - > Personal Finance (Dave Ramsey) & Entrepreneurism



13

Grades 13 & 14 associate's degrees at PPCC

- AAS Machining Technology - Advanced Manufacturing or Machining Emphasis
- AAS Architectural Engineer/ Construction Management - Construction Management Technician
- AAS Heating, Air Conditioning & Refrigeration Technology
- AAS Computer Aided Drafting - Electronics, HVAC, or Mechanical Emphasis
- AAS Electronics Technology
- AAS Welding

AAS degrees are tuition free for PTEC students that qualify.
Families are responsible for books and fees.

14

Stackable Industry Certifications

- | | |
|--|---------------------------------|
| - Advanced Manufacturing Machining | - Basic Machining Technology |
| - Intermediate Manufacturing Machining | - Basic AEC Drafting |
| - CNC Machining | - Construction Professional |
| - Basic Manufacturing Machining | - Residential HVAC |
| - Advanced Machining Technology | - Basic CAD Skills |
| - Basic Machining Technology | - Advanced CAD Technical Skills |
| | - CAD Quality Assurance |
| | - Modeling Design |

15

Stackable Industry Certifications

- Basic Electronics
- Basic Electricity & Electronics
- Basic IPC Soldering
- Intermediate Electronics
- Basic Electricity & Electronics
- Basic Automation
- Automated Systems
- Advanced Manufacturing Electronics
- Entry Level Welding
- Pipe Welding
- Gas Metal Arc (GMAW)
- Gas Tungsten Arc Weld (GTAW)
- Shield Metal Arc Weld (SMAW)
- Machining for Welders

16



Questions & Comments
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