

TCC South/FWISD Collegiate High School

Introduction to Pathways in Technology (P-TECH)



What is **P-TECH**?

P-TECH is Pathways in Technology Early College High School

	P-TECH Overview
1	Students earn an Associate of Arts, Associate of Applied Science degree, or certificate - tuition free while in high school
2	Earn as many as 60 hours of tuition-free college credit
3	Eliminate thousands of dollars in college tuition costs
4	Graduate from a four-year college or university in less time than your peers

Wait now what makes **P-TECH** different?

- ✓ P-TECH programs are required to also provide certifications for students.
- ✓ Students enter the job market with a work-ready skills.
- ✓ Students develop workplace skills through programs developed with industry partners. This is what we call work-based learning.



Our School Model

TCC South/FWISD Collegiate High School is a stand-alone campus

- The school is located on the college campus.
- Run on the College's calendar, not FWISD's.
- Students can participate in college clubs and organizations
- Does not offer UIL sports or music.
- Some college classes are given on the high school campus and some are taken at the college- either way, you just walk to class.
- Most of the elective classes that you take are dual-credit and are taught by the college.

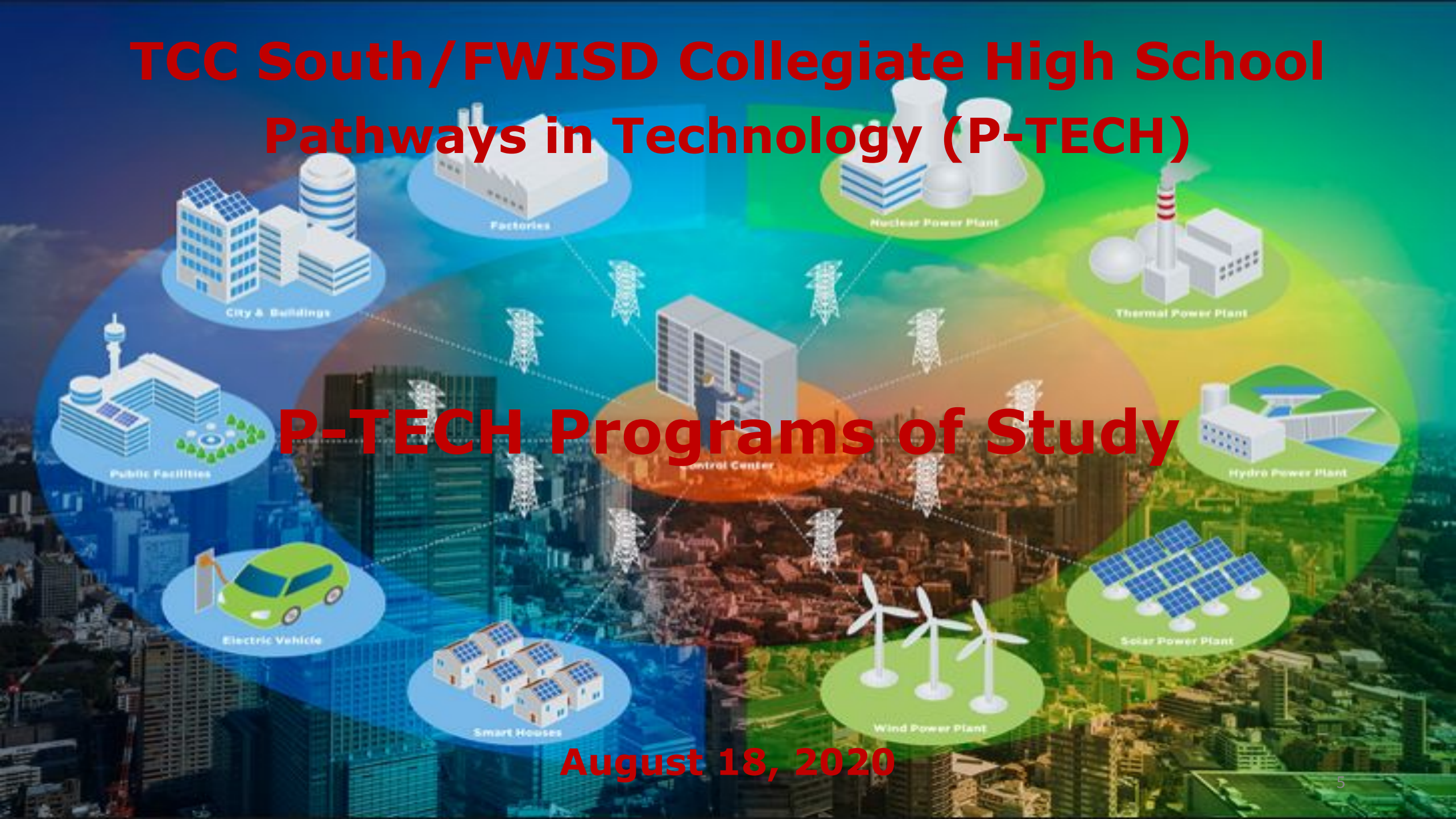


We are here to help our students achieve their goals.

TCC South/FWISD Collegiate High School Pathways in Technology (P-TECH)

P-TECH Programs of Study

August 18, 2020



4 Years from Now.... This Will be You!

TCC South Collegiate H.S. Grad!
Karla Almanza

TRANSLATE + Español नेपाली عربي ខ្មែរ Tiếng Việt Soomaali

OUR SCHOOLS + I WOULD LIKE TO +

f t i y

COVID-19 About Students Families Community Departments Board Employees

Fort Worth
INDEPENDENT SCHOOL DISTRICT

CLASS OF 2020

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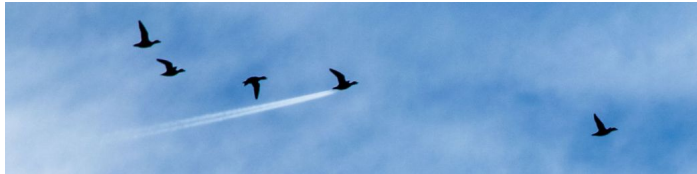
FWISD PRE-K
CONTACT FWISD
FWISD CAREERS

My Journey.... How Will I Get There?



Keep an Eye on Your Destination...

and Enjoy Your Journey!



Teachers & staff at TCC South Collegiate H.S.
are here to help you **succeed!!!**

are here to help you **succeed!!!**



What Is P-TECH?

- 1) P-TECH stands for **Pathways in Technology**, Early Collegiate High School
- 2) P-TECH is a program that offers individual pathways for students to simultaneously earn their **high school diploma and a two-year Associate degree and gain workplace learning experience.**

P-TECH provides exposure, opportunities, and priority for consideration for students when they are ready to enter the workforce.

- 3) P-TECH is a partnership between FWISD, TCC, and industry partners
 - Industry partners include **Oncor Electric and City of Fort Worth Water Department**



*All new, in-coming students to
TCC South/FWISD Collegiate High School
are automatically enrolled in the P-TECH program.*

How Will **P-TECH** Benefit Me?

- ✓ P-TECH includes an Early College High School (ECHS) environment
 - Students have an opportunity to graduate with **60+ hours of transferable college credit!**
- ✓ P-TECH provides students the opportunity to earn a high school diploma, certificate and a two-year **Associate Degree tuition free!**
 - Students can select different pathway certifications based on their career interests
- ✓ P-TECH provides a rigorous college-preparatory curriculum
- ✓ P-TECH offers small, industry-focused, and personalized learning community
 - Teachers & staff provide a lot of support and help to ensure your success
- ✓ P-TECH offers engaging, **high-skilled & high-demand career opportunities** with work-based learning experiences



What Are the **P-TECH** Pathways?

P-TECH Offers **4 Pathway Options** for Students:

1) Option #1: **Electronics Technology: Advanced Energy Technician**

- Earn a 2-year Associate of Applied Science degree
- Certification: Renewable Energy Technology Level 1

2) Option #2: **Electrical Line Technician**

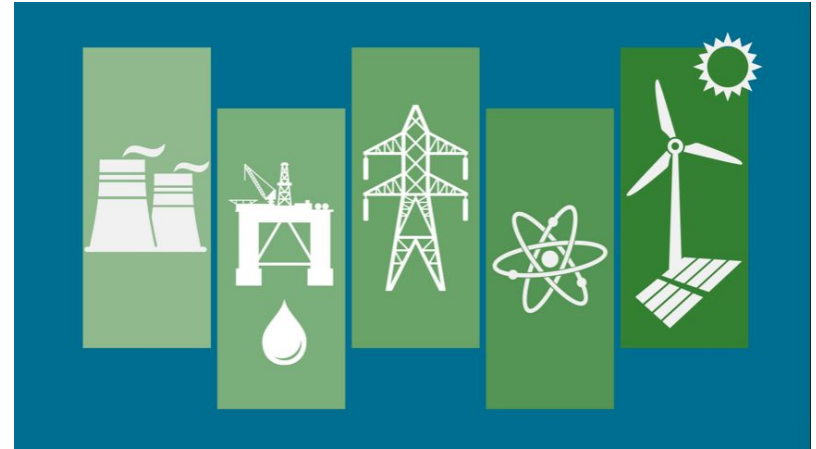
- Earn a 2-year Associate of Applied Science degree
- Certifications:
 - ✓ Ground Technician Level 1
 - ✓ Renewable Energy Line Technician Level 2

3) Option #3: **Water Operator**

- Earn a 2-year Associate of Arts degree
- Provisional License:
 - ✓ Water Operators, Class D

4) Option #4: **Energy Business-Related Coursework**

- Earn a 2-year Associate of Arts degree
- Certification:
 - ✓ Business Certification Level 1
 - ✓ Business Certification Level 2 (May be Possible)



P-TECH provides work-based learning experiences through internships and apprenticeships.

What Can I Earn for Graduation?

- 1) Students must successfully complete all FWISD & TCC academic requirements and P-TECH program requirements.
- 2) In **just 4 years**, students can qualify for and earn the below graduation credentials:

	Pathway	Degree	Major/Specialty	Institution
	All Students	High School Diploma	General Education <ul style="list-style-type: none"> ▪ Multi-disciplinary ▪ Business and Industry 	Collegiate H.S.
1	Electronics Technology: Advanced Energy Technician	Associate of Applied Science	Certification: <ul style="list-style-type: none"> ▪ Renewable Energy Technology Level 1 	TCC
2	Electrical Line Technician	Associate of Applied Science	Certification: <ul style="list-style-type: none"> ▪ Ground Technician Level 1 ▪ Renewable Energy Line Technician Level 2 	TCC
3	Water Operator	Associate of Arts	Provisional License: <ul style="list-style-type: none"> ▪ Water Operator, Class D 	TCC/FWISD
4	General Business with Energy Focus	Associate of Arts in Business	Certification: <ul style="list-style-type: none"> ▪ Business Certification Level 1 ▪ Business Certification Level 2 (Possible) 	TCC

Students can also earn certifications in
 OSHA General-Industry Safety Certification and Microsoft Office Certification (Word, Excel, PowerPoint)

When Do I Select a **P-TECH** Pathway?

You will be asked to make a decision on your chosen P-TECH pathway at the beginning of the second semester.

Steps for Selection of Pathway

- 1** The counselor will **send a communication message to parents & guardians** about the P-TECH pathway selection process.
- 2** Students can **get guidance from counselors and professors** about each of the pathways, including the course work and value of each of the programs.
- 3** Students to **talk to parents/guardians about your choice** of the pathway for study within the P-TECH program.
- 4** **Students to make a decision on your choice of the P-TECH pathway for study.**
- 5** Students to **communicate your decision on the pathway** to your counselor.
 - An online tool will be used for students to indicate your pathway decision.



Contacts for Questions about P-TECH Pathways

If you and your parents/guardians have any questions about the P-TECH program & pathways, the staff members at TCC South Collegiate High School can address your questions and provide guidance:

- **High School Counselors – Ms. Carrie Kinzer & Ms. Katricia Rubell**
- **P-TECH Lead/PSS – Ms. Millie Hsueh**
- **Freshman Success Coach – Ms. Stephanie Berry**
- **CTE Professor – Mr. Juan Rangel**
- **Professors – Mrs. Kimberly Barnes, Ms. Mr. Stephen Coll
Mr. Felix Perez**



**We are here to help you make the best decision for your
area of interest and career path.**

Foundations of Energy – What Is That For?

All new, in-coming P-TECH students are required to take the Foundations of Energy class

THE FOUNDATIONS OF ENERGY CLASS

- ❑ **Foundations of Energy** is an exploratory, high-level course in Electrical Energy and Career Preparation
 - 1) Explore & learn general aspects of the Electrical Energy field
 - 2) Learn & get certified in Microsoft Office productivity software
 - Word, PowerPoint, Excel
 - 3) Learn & get certified in OSHA Safety Standards & Practices
- ❑ The Foundations of Energy class will help students to **decide on their area of interest and career path** for the P-TECH program!
- ❑ Students will have the opportunity to attend field trips with FWISD/TCC industry partners
 - Oncor Electric
 - Ft. Worth Water Department



Got Questions about **Electrical Energy**?



Why should I care about electricity?

How is electricity used?

What are the sources of electrical energy?



How does electrical energy work?

How is electricity produced?

Are there different types of electrical energy?

Who makes electricity?

How does electricity get to me?

Do I need to be careful around electricity?



How does electricity affect our society?

Will we run out of electricity one day?

Are there good jobs in the electrical energy field?



Work-Based Learning (WBL) – The Fun Stuff!

FWISD/TCC Industry Partners: Oncor Electric and City of Fort Worth Water Department



Oncor Electric



Oncor Electric



Oncor Electric



Ft. Worth Water



Ft. Worth Water



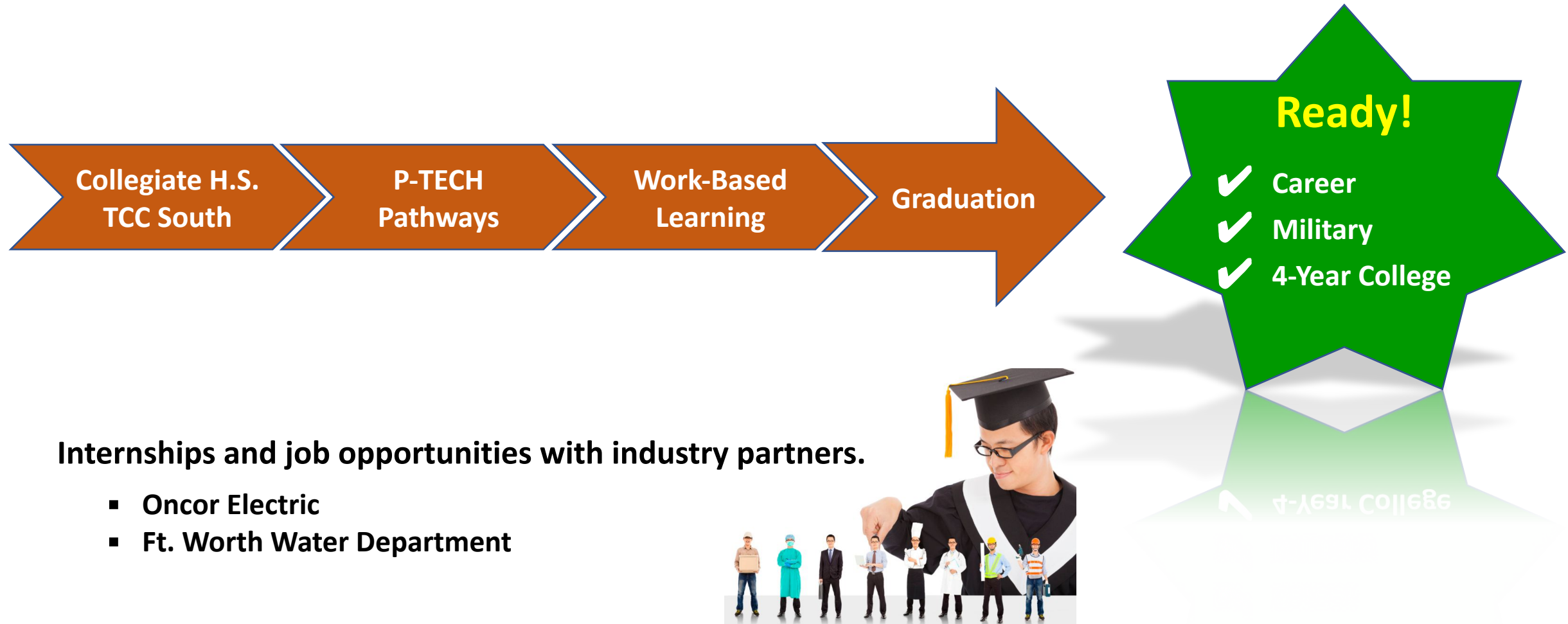
CTE National Signing Day

This is us! On our way to **SUCCESS!**



Your Journey.... 4 Years from Now

P-TECH prepares you for success in College, Career, and Military!



Yup, our industry partners got GREAT jobs!

You will have an opportunity to apply for and possibly land an **internship with them.... and maybe even a full-time job after you are done with school!**



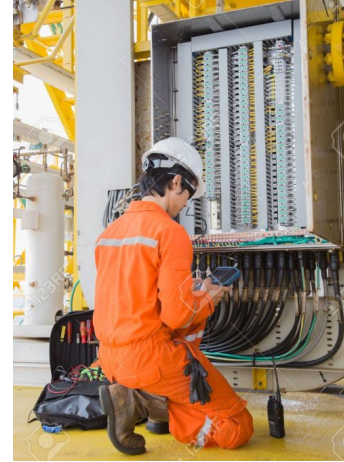
You can prepare for and pursue jobs in different career fields:

- **Field Technicians**
- **Customer Service/Call Center Representatives** (Sales & Ordering, Help Desk)
- **Engineering & Operations**
- **Accounting & Finance**
- **Human Resources**
- **Information Technology (IT)**
- **Marketing & Public Relations**
- **Supply Chain**

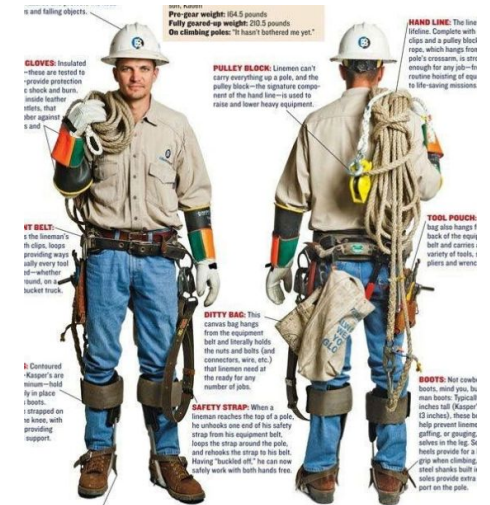
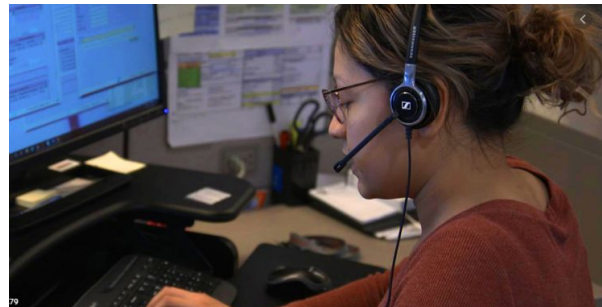
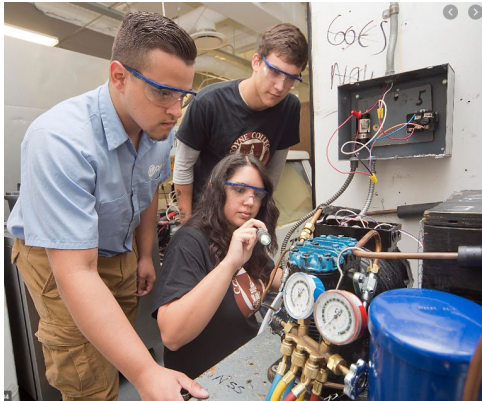
Your P-TECH education will also prepare you for the Military! (Air Force, Army, Navy, Marines)



Career Opportunities!



Career Opportunities!



TCC South/FWISD Collegiate High School Pathways in Technology (P-TECH)

P-Tech Blueprint Overview



Overview of Pathways in Technology Early College High School Model

Pathways in Technology Early College High Schools (P-TECH) are open-enrollment programs that allow students least likely to attend college or who wish to accelerate completion of high school, to combine high school courses and college-level courses while participating in rigorous and accelerated instruction.

P-TECH also offers students the opportunity to engage in work-based learning at every grade level.

For more information, visit:

<https://www.texasccrsm.org/models/p-tech/p-tech-blueprint>

P-TECH Blueprint

- The P-TECH Blueprint provides foundational principles and standards for innovative partnerships with colleges, universities, and industry.
- The P-TECH Blueprint contains six benchmarks outlining the design elements that each P-TECH campus must implement before serving students.
- Additionally, outcome-based measures (OBM's) in Access, Achievement, and Attainment provide guidance for P-TECH program implementation and continuous improvement efforts.

P-TECH Blueprint Access OBM's

Data Indicators	Requirements	
	Designated P-TECH	Designated with Distinction
	<i>Must meet targets on "At-Risk Students" and "Economically-Disadvantaged Students" designation data indicators</i>	<i>Must meet all designation access data indicators and two access distinction data indicators</i>
At-Risk Students	No more than 25% under district (grades 9-12)	No more than 20% under district (grades 9-12)
Economically-Disadvantaged Students	No more than 10% under district (grades 9-12)	No more than 5% under district (grades 9-12)
Emergent Bilingual Students	Not considered for designation	No more than 10% points under district
Students with Disabilities	Not considered for designation	No more than 10% points under district

[LEARN MORE ABOUT ACHIEVEMENT OUTCOMES-BASED MEASURES](#)

P-TECH Blueprint Achievement OBM's

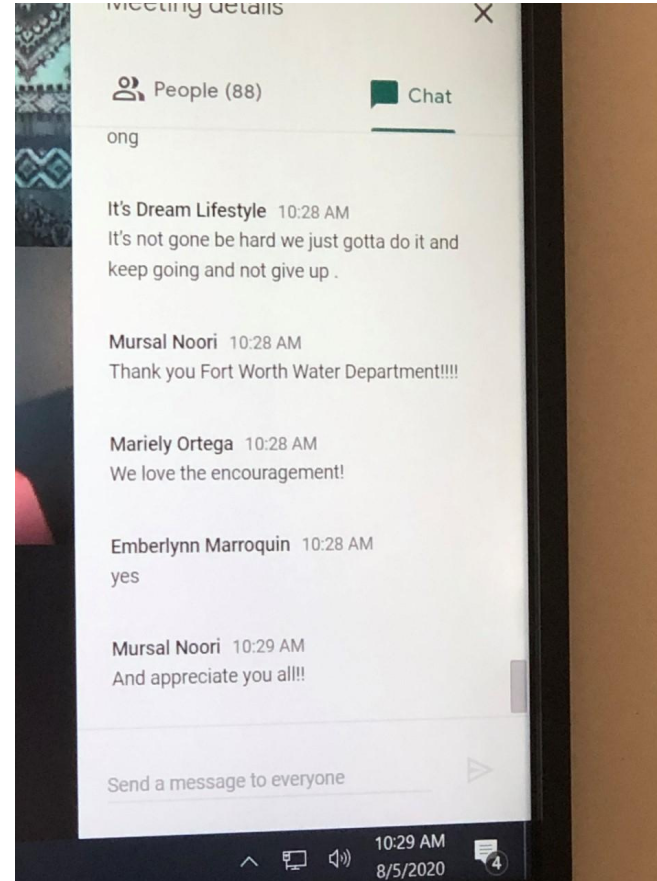
Data Indicators	Requirements	
	Designated P-TECH	Designated with Distinction
	<i>Must meet targets on at least three achievement designation data indicators</i>	<i>Must meet targets on at least three achievement distinction data indicators</i>
Algebra I EOC Assessment	70% of students achieve "Approaches Grade Level Performance" or higher by the end of 10th grade	80% of students achieve "Approaches Grade Level Performance" or higher by the end of 10th grade
English II EOC Assessment	70% of students achieve "Approaches Grade Level Performance" or higher by the end of 11th grade	80% of students achieve "Approaches Grade Level Performance" or higher by the end of 11th grade
College Readiness in Mathematics and ELA/Reading	40% of students meet TSIA criteria in mathematics and ELA/Reading (CCMR definition) by graduation	50% of students meet TSIA criteria in mathematics and ELA/Reading (CCMR definition) by graduation
High School Graduation Rate	Campus is within 5% of statewide 4- year graduation rate	Campus exceeds the statewide 4-year graduation rate
CTE Program Status by 11th grade	55% of students meet CTE concentrator or completer status by the end of 11th grade	65% of students meet CTE concentrator or completer status by the end of 11th grade
CTE Program Status by Graduation	65% of students graduate as a CTE concentrator or completer by graduation	75% of students graduate as a CTE concentrator or completer by graduation

[LEARN MORE ABOUT ATTAINMENT OUTCOMES-BASED MEASURES](#)

P-TECH Blueprint Attainment OBM's

Data Indicators	Requirements	
	Designated P-TECH	Designated with Distinction
	<i>Must meet targets on at least three attainment designation data indicators</i>	<i>Must meet targets on at least three attainment distinction data indicators</i>
Earn 3 College Credits	50% of students earn 3 college credits (any) by the end of 10th grade	60% of students earn 3 college credits (any) by the end of 10th grade
Earn 9 College Credits	40% of students earn 9 college credits (any) by the end of 11th grade	50% of students earn 9 college credits (any) by the end of 11th grade
Earn 15 College Credits	40% of students earn 15 college credits (any) by graduation	50% of students earn 15 college credits (any) by graduation
Earn a Certificate or Associate Degree	30% of students earn an associate degree or Level I or II certificate or associate degree by graduation	40% of students earn an associate degree or Level I or II certificate or associate degree by graduation
Earn an Industry-Based Certification (IBC)	50% of students earn an Industry-Based Certification by graduation	60% of students earn an Industry-Based Certification by graduation
Persistence	75% of students enrolled remain in the P-TECH program through graduation	85% of students enrolled remain in the P-TECH program through graduation

Summer Bridge



Summer Bridge was a success!

Students were on their best behavior during college tour, TCC orientation, and the industry partners presentations

**Students were actively engaged in all sessions; they asked great questions
Average attendance was about 80 people (Students and Professors combined)**

Questions?

