

# Highlands High School P-TECH Steering Committee

Agenda: April 8, 2020 - Zoom Meeting

12:00pm-2:00pm

Please sign in: [Sign in by CLICKING HERE for the google form](#)

Item	Discussion/Details	
<b>Introductions</b>	<ul style="list-style-type: none"> <li>● Steering Committee Members</li> <li>● Partners - the WHY</li> </ul>	Chris Bearsall John Haral Michelle Garcia Johnny Vahalik Katie Chain Carol Vela Saani Fong Karlene Fenton Pooja Tripathi Sunny Hernandez Fernando Rover Ravae Shaefer Katherine Sanchez-Rocha Karlene Fenton Anna Olguin Tyler Schroeder Liz Ozuna John Strelchun
<b>Meeting Purpose</b>	<ul style="list-style-type: none"> <li>● Connect all stakeholders</li> <li>● Define P-TECH and discuss initial goals and timeline</li> </ul>	SA Works St. Phillip's Region20 Highlands HS Industry Partners
<b>Overview of P-TECH</b>	<a href="#">Presentation Link</a> <ul style="list-style-type: none"> <li>● What is a P-TECH?</li> <li>● HHS Campus Info</li> <li>● St. Philip's College Programs - High Level Overview</li> <li>● Planning Year</li> <li>● Roles of the Industry and Community Partners</li> </ul>	
<b>Discussion on Overview of P-TECH</b>	<p><b>Key Points</b></p> <p>P-TECH is a national and state model (see resources)</p> <p>3-separate pathways for Highlands: Manufacturing, Engineering and Aerospace.</p> <p>SPC - Large number of current DC students, supportive of P-TECH programs, all supports/resources available to HS DC students</p>	

	<p>Pathways/4-year plans/course crosswalks/MOUs are essential pieces</p> <p><b>Key date: October/November 2020 (recruitment start date)</b></p> <p><i>Add to timeline/tasks:</i>  SAC COC  Course Agreements  TEA Assurance Form</p> <p><b>Instructors</b>  Once we finalize pathway, immediate need to evaluate current instructors for DC approval and look into hiring additional DC approved instructors</p> <p><b>Student Prep</b>  Keep an eye on TSI/Apply Texas DC timeline  Liz Ozuna suggested using EDU1300 a Dual Credit course for PTech Model - English DC course for exploration of pathways. Also advocating for AVID implementation.</p> <p><b>Teacher Prep and Buy-in</b>  Katie Chain suggests having instructors visit manufacturing plants to gain experience. Will help with making connections.  Tyler Schroeder says Boeing can do teacher externship to help with industry experience.</p> <p>Internships - partner and share resources with Alamo Academies</p> <p>Region 20 Advice - plan extra time for course agreements, also branding and community outreach (outside of just HHS local)  St. Anthony's HS and HTECH for marketing ideas</p> <p>What are the competitive opportunities for your campus that make you unique from CAST STEM or other recruitment competition? Consider 4,5,6 year program approach, WBL opportunities, foundation support from industry, etc. What makes you unique or complementary to other campuses?</p>
<p><b>Defining Outcomes</b></p>	<ul style="list-style-type: none"> <li>• Group Exercise</li> </ul>
	<p><b>What is our big picture goal/mission/vision as a program?</b>  Need to define this and create our BRAND</p> <p><b>What makes us unique from other models (PTECH, CAST STEM, etc.)?</b>  Traditional campus - the Highlands experience (extra-curriculars, etc.)  Differentiated pathways to meet student needs  Need to carefully consider overlapping programs - do we collaborate and/or differentiate?</p> <p><b>Careers: Employability</b></p>

**Manufacturing:** Advanced Manufacturing (TX FAME Focus) vs. Machining (SAMA Focus) vs. Industrial Automated Processes

**Aerospace:** Aircraft Mechanics (Powerplant/Airframe) vs. Aerospace Engineering vs. Pilot (Flight, Drones)

**Engineering:** Need to discuss (general dual credit and engineering majors exposure to prep students for 4-year engineering degree)

\*Need more detailed data on specific job openings by outcome to ensure our pathways are aligned with job opportunities - Alamo Workforce Solutions as resource (Ravae reached out to them for us)

*\*Reach out to additional industry partners to get perspective on ideal outcomes/needs in the region*

**Degrees: Transferability**

Will discuss at next meeting

**Certifications:**

Will discuss at future meetings

**Skills/Knowledge:** Career readiness/professionalism, business communication (not just technical), math competence

*\*Keep in mind the various levels students will enter from (different middle schools, academics, maturity), also think through team building/culture/support systems well including background and gender differences*

*\*model programs for the soft skills include: Alamo Academies and CAST Tech (Jeanne Russell from CAST Network as good resource)*

**Other:** Think outside of the box too - ex: "passport" concept/resume/big picture items/what do we dream for our students?

**Coordinate with Existing Edu Programs:**

-Who can bring us all together? Region 20, SA Works, Chamber of Commerce, SA 2020

-Find similar programs to carve out niche (collaborate and share resources vs. compete)

-Ex: Roosevelt HS, Kennedy HS (Aero), Lytle HS (Manu Machining), CAST Network, Alamo Academies (Aero, Manu AMT), Phoenix Middle College

**Four Year Plan:**

On the four year plan - consider on and off ramps for the programs, considering the foundation Katie alluded to. Great artifact is the 4-year plan for helping with core content alignment.

<b>Communication Plan</b>	<ul style="list-style-type: none"> <li>● Meeting Dates</li> <li>● Shared Documents</li> </ul>	<p>Dates listed below - invite other partners, colleagues</p> <p>Still need to set up document storage plan - OneDrive or Google?</p>
<b>Homework</b>	<ul style="list-style-type: none"> <li>● We need more industry at the table; We need help determining best pathways/outcomes.</li> <li>● Discuss tentative action items below.</li> <li>● Consult/review resources page.</li> </ul>	<p>Michelle and Johnny will draft a note to Molly (SA 2020) with our request and Ravae and Katie will reach out on our behalf. Re: bringing local/similar ed programs together for a discussion with industry</p> <p>Send or forward additional invites for next meeting (April 22)</p> <p>What are BIG dreams for our kids?</p>

<b>Next Zoom Meetings</b>	<b>Tentative Action Items</b>
<b>April 22nd 12:00 PM</b>	<ul style="list-style-type: none"> <li>● Review Associate's Degree Plan Options</li> </ul>
<b>May 6th 12:00 PM</b>	<ul style="list-style-type: none"> <li>● Select Associates Degree Plans</li> <li>● Review Skills by Grade Level from Industry partners</li> <li>● Campus Set Up Review</li> </ul>
<b>May 20th 12:00 PM</b>	<ul style="list-style-type: none"> <li>● Review course Crosswalks and Four year Plan and obtain input</li> <li>● Discuss Dual Credit Courses - by Grade Level</li> <li>● Discuss MOU's</li> </ul>

**Careers -> Workforce Needs/College Programs -> Associate's Degree Plans -> Courses -> Skills**

<b>Resources and References</b>	
<b>P-TECH Blueprint</b>	<a href="#">Click Here</a>
<b>P-TECH Roadmap</b>	<a href="#">Click Here</a>
<b>Example P-TECH Programs</b>	<p>Lytle ISD Manufacturing:  <a href="https://www.lytleisd.org/domain/111">https://www.lytleisd.org/domain/111</a></p> <p>Dallas ISD Engineering/Manufacturing:  Hillcrest HS - <a href="https://www.dallasisd.org/domain/21083">https://www.dallasisd.org/domain/21083</a>  Kimball HS - <a href="https://www.dallasisd.org/domain/21115">https://www.dallasisd.org/domain/21115</a></p> <p>SAISD Sam Houston Cyber P-TECH:  <a href="https://schools.saisd.net/page/006.cyber">https://schools.saisd.net/page/006.cyber</a></p> <p>SAISD Fox Tech Nursing H-TECH:  <a href="https://schools.saisd.net/page/004.htech">https://schools.saisd.net/page/004.htech</a></p>
<b>Example Skills Mapping by Grade Level</b>	<p>Sam Houston Cyber P-TECH:  <a href="https://schools.saisd.net/page/open/104380/0/Cyber%20P%20TECH%20WBL%20Roadmap.pdf">https://schools.saisd.net/page/open/104380/0/Cyber%20P%20TECH%20WBL%20Roadmap.pdf</a></p>
<b>Programs of Study / Pathways</b> <i>*Downloaded from SPC website Dec. 2019</i>	<p>Manufacturing:  <a href="#">AAS - AMT</a></p>
	<p>Aerospace/Aviation:  <a href="#">AAS - Powerplant</a>  <a href="#">AAS - Airframe</a></p>
	<p>Engineering:  <a href="#">FOS - Mech. Eng.</a></p>
<b>Alamo Academies 4-Year Plans</b>	<p><a href="#">Manufacturing Academy</a>  <a href="#">Aerospace Academy</a></p>
<b>TEA Programs of Study &amp; Certs HS</b>	<p><a href="#">Programs of Study</a>  <a href="#">Industry Based Certifications</a></p>
<b>P-TECH Texas Guides/Tools</b>	<a href="https://www.texasccrsm.org/ptech">https://www.texasccrsm.org/ptech</a>
<b>P-TECH National Guides/Tools</b>	<p><a href="https://www.ptech.org/getting-started/tools/">https://www.ptech.org/getting-started/tools/</a>  Skills mapping:  <a href="https://www.ptech.org/how-it-works/the-model/partnership/skills-map/">https://www.ptech.org/how-it-works/the-model/partnership/skills-map/</a>  Detailed skills mapping process:  <a href="https://www.ptech.org/wp-content/uploads/Skills-Mapping-Guide-Update-02072016.pdf">https://www.ptech.org/wp-content/uploads/Skills-Mapping-Guide-Update-02072016.pdf</a></p>

## Highlands High School P-TECH Steering Committee Members

<b>SAISD/Highlands HS</b>		
Johnny Vahalik	SAISD CTE	jvahalik1@saisd.net
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<b>St. Philip's College</b>		
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<b>Industry &amp; Community Partners</b>		
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Katie Chain	TX FAME - HEB	chain.katie@heb.com
Tyler Schroeder	Boeing	tyler.j.schroeder@boeing.com
Saani Fong	SA Works	ssfong@sanantonioedf.com
Ravae Schaeffer	ESC Region 20	Ravae.Shaeffer@esc20.net
Fernando Rover	Bexar County Workforce Dev.	Fernando.Rover@bexar.org

# Highlands High School P-TECH Steering Committee

Agenda: April 22, 2020 - Zoom Meeting #2

12:00pm-2:00pm

*No need to sign in, we will use zoom recording and steering committee roster below to record attendance. Thank you for joining!*

Item	Discussion/Details
<b>Introductions</b>	Review Steering Committee Members list David Lerma, Highlands; Armando Marti, Highlands; JR Broils, Highlands; Jane Kellog; John Haral, St. Phillips; Katie Chain, HEB; Pooja Tripathi, TXFAME; Julio Garcia, Highlands Principal; Jose Manuel Piqueras, Highlands; George Johnson, St. Phillips; Dr. Karlene Fenton; Chris Beardsall, St. Phillips; Katherine Sanchez-Rocha, Alamo Academies; Karina Pacheco, SW; Mary Batch, Toyota; Sunny Hernandez - St. Phillips; Dr. Carol Vela, SAISD; Johnny Valalik, CCMR Exec. Director; Anna Olguin, CTE Coordinator; Josh Smith; PPruitt, Highlands
<b>Meeting Purpose</b>	Review Associate's Degree Plan options and Engineering Field of Study options. Consider workforce demand, existing HS programs, facility and instructor capacity, etc.
<b>Manufacturing</b> <i>Goal: 40 students p/cohort</i>	<p><b>Advanced Manufacturing (TX FAME/Alamo Academies) - Not Allowed by St. Philip's College. Program is full and not an option.</b>  <a href="#">AAS, Advanced Manufacturing Technology</a>            -<a href="#">Alamo Academies</a>            -CAST STEM, Southwest ISD</p> <p><b>Manufacturing - Machining (SAMA) - At capacity; Not allowed by St. Philip's college. Program is dedicated to Lytle HS.</b>  <a href="#">AAS, CNC Manufacturing Technician</a>            -Lytle ISD</p> <p><b>Automated Industrial Processes - Possible- Similar to Advanced Manufacturing; Same positions as Advanced Manufacturing for hiring; Do not do Welding and computer classes.</b>  <a href="#">AAS, Automated Industrial Processes</a></p>
<b>Notes</b>	C. Beardsall - IPR18 docs from St. Phillips to show data Mary Batch - AMT Program data from Toyota Pooja Tripathi- TXFame Data For AIP program - cap at 15-18
<b>Aerospace</b> <i>Goal: 20 students p/cohort</i>	<p><b>Aircraft Mechanics (Powerplant/Airframe) 90 students traditional students; Alamo Academies; Kennedy HS - Program full - 1800 hours. No satellite program;</b>  <a href="#">AAS - Powerplant</a> / <a href="#">AAS - Airframe</a>            -Kennedy HS, Edgewood ISD</p>

	<p>-Southwest HS, Southwest ISD          -<a href="#">Alamo Academies</a>          -Hallmark University Aero CHI Program</p> <p><b>Aerospace Engineering</b>          Could roll in to Engineering FOS described below as specific course or units within courses?</p> <p><b>Pilot (Flight, Drones/UAS)</b>          Could roll in to Engineering FOS described below OR find alternate education program for this focus?          -AOPA Curriculum:  <a href="https://youcanfly.aopa.org/high-school/high-school-curriculum">https://youcanfly.aopa.org/high-school/high-school-curriculum</a></p> <p>-LEE High School and Alamo Heights HS are also looking into aerospace/aviation program (not sure which focus area)</p>
Notes	
<p><b>Engineering</b>  <i>Goal: 60 students p/cohort</i></p>	<p><b>Field of Study - Most Flexible</b>          *Student would NOT complete Associate's Degree          *Will be impossible to complete all FOS courses in 4 years (high level math required)          *Goal is to complete <u>transferable</u> dual credit courses (combination of core subject and engineering/cte)          *P-TECH outcome would be certifications instead of degree (AutoCAD, Revit, FAA Drone Pilot, other?) - is that okay for Outcomes Based Measures? (page 15 of PTech blueprint)</p>
Notes	<p>Can a P-Tech model produce an AS? Cybersecurity P-Tech model produces an AAS          Possible pathways: Comp Science, Math, Physics, Chemistry, Engineering (ME/EE/CE)          (PreReq)College Algebra, Pre Cal, Cal 1          May want to look at DPT Labs</p>
<p><b>Common Skills/ Courses</b></p>	<ul style="list-style-type: none"> <li>● Professionalism/Soft Skills</li> <li>● Tech and Communication Skills (Google, Microsoft, business communication, typing, etc.)</li> <li>● College Readiness (TSI, SAT, etc.)</li> <li>● Introduction to Engineering Design and Manufacturing Processes and Careers</li> <li>● Safety</li> <li>● Measurement and Basic Shop/Tool Skills</li> <li>● AC/DC Electrical</li> <li>● Robotics</li> <li>● Simple Mechanics</li> </ul>
Notes	



<b>Homework</b>	<p><b>Submit HHS STEM teacher resumes to SPC</b> - What are key things they should include? Must show work experience (related to potential courses). Other advice for strong resume? <a href="#">SPC Faculty Credentialing Document</a></p> <p><b>Begin thinking of essential skills</b> - will do skills mapping (technical AND soft skills) and discuss at next meeting. What do you think of this soft skills curriculum developed by IBM? We could create our own version: <a href="https://www.ptech.org/wp-content/uploads/2018/10/Workplace_Learning_Curriculum.pdf">https://www.ptech.org/wp-content/uploads/2018/10/Workplace_Learning_Curriculum.pdf</a></p>
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Next Zoom Meetings	Tentative Action Items
<b>May 6th 12:00 PM</b>	<ul style="list-style-type: none"> <li>● Select Associates Degree Plans</li> <li>● Review Skills by Grade Level from Industry partners</li> <li>● Campus Set Up Review</li> </ul>
<b>May 20th 12:00 PM</b>	<ul style="list-style-type: none"> <li>● Review course Crosswalks and Four year Plan and obtain input</li> <li>● Discuss Dual Credit Courses - by Grade Level</li> <li>● Discuss MOU's</li> </ul>

**Careers -> Workforce Needs/College Programs -> Associate's Degree Plans -> Courses -> Skills**

**Highlands Initial Proposal:**

Program of Study	Endorsement	Key Instructors	# Students	CCMR Outcomes
<b>P-TECH: Aviation Maintenance</b>	Business & Industry	SPC	80 <b>(20 p/cohort)</b>	-Associate's Degree -Level I or II Certificate *Career ready upon graduation
<b>P-TECH: Advanced Manufacturing</b>	Business & Industry	SPC Piqueras Marti	160 <b>(40 p/cohort)</b>	-Associate's Degree -Level I or II Certificate *Career ready upon graduation
<b>P-TECH: Engineering</b>	STEM	SPC Broils Lerma	240 <b>(60 p/cohort)</b>	-Dual credit transferable to Engineering Bachelor's Degree programs (# hours?) -AutoCAD and/or Revit Cert

<b>Resources and References</b>	
<b>P-TECH Blueprint &amp; Roadmap</b>	Blueprint: <a href="#">Click Here</a> / Roadmap: <a href="#">Click Here</a>
<b>Example P-TECH Programs</b>	<p>Lytle ISD Manufacturing:  <a href="https://www.lytleisd.org/domain/111">https://www.lytleisd.org/domain/111</a></p> <p>Dallas ISD Engineering/Manufacturing:  Hillcrest HS - <a href="https://www.dallasisd.org/domain/21083">https://www.dallasisd.org/domain/21083</a>  Kimball HS - <a href="https://www.dallasisd.org/domain/21115">https://www.dallasisd.org/domain/21115</a></p> <p>SAISD Sam Houston Cyber P-TECH:  <a href="https://schools.saisd.net/page/006.cyber">https://schools.saisd.net/page/006.cyber</a></p> <p>SAISD Fox Tech Nursing H-TECH:  <a href="https://schools.saisd.net/page/004.htech">https://schools.saisd.net/page/004.htech</a></p>
<b>Example Skills Mapping by Grade Level</b>	<p>Sam Houston Cyber P-TECH:  <a href="https://schools.saisd.net/page/open/104380/0/Cyber%20P%20TECH%20WBL%20Roadmap.pdf">https://schools.saisd.net/page/open/104380/0/Cyber%20P%20TECH%20WBL%20Roadmap.pdf</a></p> <p>Sample workplace learning curriculum:  <a href="https://www.ptech.org/wp-content/uploads/2018/10/Workplace_Learning_Curriculum.pdf">https://www.ptech.org/wp-content/uploads/2018/10/Workplace_Learning_Curriculum.pdf</a></p>
<b>Programs of Study / Pathways</b> <i>*Downloaded from SPC website Dec. 2019</i>	Manufacturing: <a href="#">AAS - AMT</a>
	Aerospace/Aviation: <a href="#">AAS - Powerplant</a> <a href="#">AAS - Airframe</a>
	Engineering (Mechanical): <a href="#">FOS - Mech. Eng.</a>
<b>Alamo Academies 4-Year Plans</b>	<a href="#">Manufacturing Academy</a> <a href="#">Aerospace Academy</a>
<b>TEA Programs of Study &amp; Certs HS</b>	<a href="#">Programs of Study</a> <a href="#">Industry Based Certifications</a>
<b>P-TECH Texas Guides/Tools</b>	<a href="https://www.texasccrsm.org/ptech">https://www.texasccrsm.org/ptech</a>
<b>P-TECH National Guides/Tools</b>	<p><a href="https://www.ptech.org/getting-started/tools/">https://www.ptech.org/getting-started/tools/</a>  Skills mapping:  <a href="https://www.ptech.org/how-it-works/the-model/partnership/skills-map/">https://www.ptech.org/how-it-works/the-model/partnership/skills-map/</a></p> <p>Detailed skills mapping process:  <a href="https://www.ptech.org/wp-content/uploads/Skills-Mapping-Guide-Update-02072016.pdf">https://www.ptech.org/wp-content/uploads/Skills-Mapping-Guide-Update-02072016.pdf</a></p>

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