

THE PATHWAYS IN TECHNOLOGY EARLY COLLEGE HIGH SCHOOL
2020-2021 CAMPUS DESIGNATION OUTCOMES-BASED MEASURES CALCULATION PROCESS

Pathways in Technology (P-TECH) Early College High Schools are open-enrollment programs that provide students with a seamless pathway from high school, to postsecondary education, to employment and includes work-based learning at every grade level.

The Texas Education Agency (TEA) designed the designation process for P-TECH under the authority of Texas Education Code (TEC) §§29.551-29.557 (2020) and Title 19 Texas Administrative Code (TAC) §102.1095 (effective in 2018).

TEA is currently in a phase-in process for the new P-TECH Blueprint. All data are for information and planning purposes only. This information will not be used to determine designation status. Currently, the program designation status is based on the number of years of program operation.

After the phase-in period, designation status will be determined using outcomes-based measures (OBM). For more information on the P-TECH Blueprint revision and phase-in process, please visit TEA’s [P-TECH homepage](#).

P-TECH campuses are eligible for Provisional designation for the 2020-2021 Designation year:

Provisional Designation

P-TECHs in the first 4 years of operation must demonstrate implementation of all the design elements for each benchmark of the Blueprint and meet the Provisional P-TECH outcomes-based measures.

For the 2020-2021 designation year, Access OBM data are provided to Provisional P-TECH campuses for formative purposes.

Access	<i>Do specific student groups have access to the program?</i>	Access OBM are based on the proportions of students at each campus within specific student groups (e.g., at-risk or economically disadvantaged) compared to district rates.
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P-TECH OBM are currently on a phase-in schedule (see Table 1 below). Access data for students participating in the P-TECH program in 2019-2020 will be provided in the *Summary Report for the 2020-2021 Designation Year* based on the phase-in schedule of the campus. Access OBM will add a grade level each year during the phase-in period. For example, starting in the initial year of implementation, in 2018-2019, Access for students in Grade 9 was evaluated for each specific student group for 2019-2020 designation. During the current designation year, Access OBM for students in Grades 9 and 10 for these student groups are typically provided. Access OBM for specific student groups will continue to be monitored in following years by including each additional grade as the cohort of P-TECH students advances toward Grade 12. Attainment and Achievement OBM will also be phased-in in upcoming years as students advance.

Table 1

Designation Phase-in Schedule

Designation Year	School Year Data	Phase in
2019-2020	2018-2019	Grade 9
2020-2021	2019-2020	Grades 9, 10
2021-2022	2020-2021	Grades 9, 10, 11
2022-2023	2021-2022 ^a	Grades 9, 10, 11, 12

^a2022-first phase-in graduates.

New P-TECH campuses opening *after* 2018-19 will follow a similar Designation phase-in schedule based upon their initial year serving students. OBM will add a grade level each year during the phase-in period. For example, if a campus has only been in operation for one year, Access for students in Grade 9 will be evaluated.

The Access OBM are operationalized differently for each designation category.

Access outcomes-based measures

Access OBM are measured by the proportion of students within specific student groups enrolled at P-TECH campuses based on Public Education Information Management System (PEIMS) fall enrollment data for 2019-2020.

Data collection sources and timeframe are detailed in Table 2 below. See Table A-1 in Appendix A for additional detail about the PEIMS data elements and codes submitted to TEA through the Texas Student Data System (TSDS) that are used in calculating Access OBM.

Table 2
Access OBM Data Sources

Data of Interest	School Year	Data Collection Timeframe ^a	Source
Student demographic indicators: <ul style="list-style-type: none">• At-Risk• Economically disadvantaged• African American^b• Hispanic^b Other indicators: <ul style="list-style-type: none">• P-TECH Indicator• Grade	2019-2020	Fall 2019/Collection 1	PEIMS ^b

^aSee the [Texas Education Data Standards](#) for more information about the Texas Student Data System data submission timelines and a description of the data submitted in each collection in the 2019-2020 school year. ^bPublic Education Information Management System. ^cFor informational purposes only.

Access measurement process:

- Step 1** Calculate Access for student groups in the P-TECH campus
- Step 2** Calculate Access for student groups in districts for comparison to the P-TECH campus rates
- Step 3** Calculate the difference between P-TECH campus and comparison district rates¹
- Step 4** Compare calculated rate differences against pre-determined criteria for Provisional P-TECH designation

Step 1: Calculate P-TECH campus Access rates

The P-TECH campus Access rates are defined as the proportions of students belonging to specific student groups in grade levels determined by the phase-in schedule and years of operation during the phase-in. The following student groups are included in the campus Access calculations: at-risk and economically disadvantaged students. These campus Access rates will be compared to district rates (see Step 4).

Additionally, Access rates are also calculated for historically underrepresented students (e.g., African American and Hispanic students) and made available on the campus-level report but are not compared to a district rate and will not be used to determine designation status. **Reminder: OBM are currently**

¹ Charter school P-TECH campuses are compared to the traditional district within which the charter school campus is geographically located.

being phased-in. Calculations for all student groups are for informational purposes ONLY and are not used to determine a P-TECH’s designation status.

Unless a campus has been in operation for only one year of the phase-in, rates for Provisional designation OBM for 2020-2021 designation include students in Grades 9 and 10, with the exception of at-risk rates which are calculated for Grade 9 only.

Campus rates are calculated as follows:

$$\begin{array}{l} \text{P-TECH At-Risk} \\ \text{Grade 9} \end{array} = \frac{\text{Students who have the P-TECH Indicator, are At-Risk, and in Grade 9}}{\text{All Grade 9 students who have the P-TECH Indicator}}$$

$$\begin{array}{l} \text{P-TECH} \\ \text{Economically} \\ \text{Disadvantaged} \\ \text{Grades 9-10} \end{array} = \frac{\text{Students who have the P-TECH Indicator, are Economically Disadvantaged, and in Grades 9 and 10}}{\text{All Grade 9 and 10 students who have the P-TECH Indicator}}$$

$$\begin{array}{l} \text{P-TECH African} \\ \text{American} \\ \text{students} \\ \text{Grades 9-10} \end{array} = \frac{\text{Students who have the P-TECH Indicator, are African American, and in Grades 9 and 10}}{\text{All Grade 9 and 10 students who have the P-TECH Indicator}}$$

$$\begin{array}{l} \text{P-TECH} \\ \text{Hispanic} \\ \text{students} \\ \text{Grades 9-10} \end{array} = \frac{\text{Students who have the P-TECH Indicator, are Hispanic, and in Grades 9 and 10}}{\text{All Grade 9 and 10 students who have the P-TECH Indicator}}$$

Step 2: Calculate comparison district Access rates

The comparison district Access rates are defined as the proportions of Kindergarten through Grade 12 students in the pre-determined comparison district belonging to specific student groups, with the exception of the at-risk students comparison district rate which is calculated for Grades 9 through 12. District Access rates for traditionally underrepresented students (African American and Hispanic) are not calculated. Charter school P-TECH campuses are compared to the traditional district within which the charter school campus is geographically located.

District rates are calculated as follows:

$$\begin{array}{l} \text{District At-Risk Grades} \\ \text{9-12} \end{array} = \frac{\text{Students who are At-Risk and are in Grades 9 through 12}}{\text{All Grade 9 through 12 students}}$$

$$\begin{array}{l} \text{District Economically} \\ \text{Disadvantaged K-12} \end{array} = \frac{\text{Students who are Economically Disadvantaged and in Grades K through 12}}{\text{All Grade K through 12 students}}$$

Step 3: Difference between district rate and P-TECH rate

Once the rates are calculated for a campus and its comparison district, the difference between the district and campus rates (District Rate – Campus Rate) is calculated. That is, the difference between

rates is calculated by subtracting the proportion of students in each respective category at the campus level from the proportion of students in each respective category at the district level.

For example,

$$\text{At-Risk Difference} = \text{District At-Risk Rate} - \text{P-TECH At-Risk Rate}$$

This calculation is repeated for all rates listed in Steps 1 and 2.

Step 4: Compare rate differences to designation standards

Access rate differences, indicating the extent of the difference in access between student groups in the P-TECH campus and its comparison district, are compared to threshold criteria for Provisional P-TECH designation.

Provisional designation features student Access measures for at-risk and economically disadvantaged students.

Based on the threshold comparison, a flag of (Yes/No) is created that indicates whether the campus has met Provisional status for each measure. The criteria for meeting each Provisional designation are in Table 3 below:

**Table 3
Provisional Access Criteria**

(District – P-TECH) Difference Score	Description	Met Criteria? (%)	
		No if:	Yes if:
At-Risk	Meets Provisional standard for At-risk	> 20.0	≤ 20.0
Economically Disadvantaged	Meets Provisional standard for Economically Disadvantaged	> 10.0	≤ 10.0

Appendix A

Table A-1
Student Demographic and Other Indicators in Access Outcomes-Based Measure Calculations for the 2020-2021 Designation Year

Data Element	TSDS ^a Source and Criteria
Student demographic indicators	
At-Risk	<p>Data Source. PEIMS^b fall collection (Collection 1) on the 40100-Student Basic Information subcategory.</p> <p>Criteria. Student coded as “1” for the At-Risk Indicator Code (E0919).</p>
Economically disadvantaged	<p>Data Source. PEIMS fall collection (Collection 1) on the 40100-Student Basic Information subcategory.</p> <p>Criteria. Student coded as “01,” “02,” or “99” for the Economic Disadvantage Code (E0785).</p>
African American	<p>Data Source. PEIMS fall collection (Collection 1) on the 40100-Student Basic Information subcategory.</p> <p>Criteria. Student coded as “1” for Black African American Code (E1061) and “0” for American Indian-Alaska Native Code (E0159), Asian Code (E1060), Native Hawaiian Pacific Islander Code (E1062), White Code (E1063) and Hispanic Latino Code (E1064).</p>
Hispanic	<p>Data Source. PEIMS fall collection (Collection 1) on the 40100-Student Basic Information subcategory.</p> <p>Criteria. Student coded as “1” for Hispanic Latino Code (E1064).</p>
Other indicators	
P-TECH ^c Indicator	<p>Data Source. PEIMS fall collection (Collection 1) on the 40100-Student Basic Information subcategory.</p> <p>Criteria. Student coded as “01” for the P-TECH Indicator Code (E1612).</p>
Grade	<p>Data Source. PEIMS fall collection (Collection 1) on the 40110-Enrollment subcategory.</p> <p>Criteria. Student coded as “09,” “10,” “11,” or “12” for the Grade Level Code (E0017). See Access OBM^d rate calculations for how the Grade Level Code criteria are used across the calculations.</p>

^aTexas Student Data System. ^bPEIMS Public Education Information System ^cPathways in Technology Early College High School. ^dOutcomes-based measures.