



LYTLE H S

P-TECH Renewal Application

2019-2020

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Background

District Affiliation

LYTLE ISD

CD #: 007904

Region: 20

Mailing Address (Line 1): P O BOX 745

Mailing Address (Line 2):

City, State, Zip: LYTLE, TX 78052

School Affiliation

LYTLE H S

CDC #: 007-904-001

Region:

Mailing Address (Line 1): P O BOX 190

Mailing Address (Line 2):

City, State, Zip: LYTLE, TX 78052

Academy Information

P-TECH Academy Name:

LYTLE H S

Are you seeking designation for P-TECH, ICIA, or both?

ICIA

Are you currently in the 2018-2019 planning year or are a 2018-2019 planning grantee?

Yes

What grade level range will your academy serve in the 2019-2020 school year?

9

If you do not currently serve a full cohort of students, will you scale up the program by adding grade levels over subsequent years?

Yes

Contacts

Superintendent

Job Title: Superintendent
Full Name: Mrs. Michelle Carroll Smith
Email: Michelle.smith@lytleisd.org
Phone Number: 830-709-5100

Applicant

Job Title: Project Director
Full Name: Ms. Catherine Hoffman
Email: catherine.hoffman@lytleisd.org
Phone Number: 210-216-0940

IHE Liaison

Affiliation: St. Philip's College
Job Title: Director of High School Programs St. Philip's College
Full Name: Dr. Karlene Fenton
Email: kfenton@almao.edu
Phone Number: 210-486-2085

IHE Liaison

Affiliation: St. Philip's College
Job Title: Vice President St. Philip's College Southwest Campus
Full Name: Dr. Rafael Brisita
Email: rbrisita@alamo.edu
Phone Number: 210-486-7041

Business Partner

Affiliation: WCW Design Co
Job Title: Operations Manager
Full Name: Mr. Christopher Roberts
Email: christopher.j.roberts1@gmail.com
Phone Number: 210-573-1843

Narratives

Model Implementation

Which P-TECH model does the district intend to implement at this time? Within these models, there are variations. For this purpose campus is defined as a CDC number not a physical location.

School Within a School

Endorsements

Identify the current endorsements that are offered:

- Science, Technology, Engineering, and Mathematics (STEM)
- Business and Industry
- Public Services
- Arts and Humanities
- Multi-disciplinary Studies

Institution of Higher Education

Describe the current campus or district partnership with an institution of higher education (IHE) and address how this partnership addresses all statutory requirements such as curriculum alignment, instructional materials, instructional calendar, etc.

Lytle ISD has a long-standing relationship with the Alamo Colleges and currently partners with both Palo Alto College and St. Philip's College to serve students through their academic and CTE dual credit programs. After meeting with the CNC Director and the Chair of the Manufacturing Department of the southwest campus of St. Philip's College, a decision was made to offer Lytle ISD students the opportunity to participate in the CNC program on the college campus. The nature of the CNC program requires both technically qualified instructors and high priced machinery that are not currently available at Lytle High School. A crosswalk has been established that will ensure high school and college credits, curriculum, instructional calendars, and services align and are made available to all program participants at both the IHE and high school campus.

Describe the program(s) of study offered to students through this P-TECH/ICIA (or like) program. Include the sequence of courses that lead to a credential and/or associate degree.

The Manufacturing program is designed to prepare students for high performance manufacturing employment opportunities. The program provides training in a new facility that has been retrofitted with state of the art equipment in Computer Integrated Manufacturing, Computer Numerical Control, Robotics, and Precision Measuring instruments.

Level I Certificate:

- MCHN 1438 - Basic Machine Shop I
- MCHN 1302 - Print Reading for Machining Trade
- MCHN 1320 - Precision Tools and Measurement
- MCHN 2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls
- ITSC 1301 - Introduction to Computers or COSC 1301 Introduction to Computing
- MCHN 1426 - Introduction to Computer-Aided Manufacturing (CAM)
- MCHN 2431 - Operation of CNC Turning Centers
- MCHN 2434 - Operation of CNC Machining Centers
- RBTC 1305 - Robotic Fundamentals
- MCHN 2266 - Practicum (or Field Experience) - Machine Tool Technology/Machinist

Additional Courses required for associate degree (CNC Manufacturing Technician, A.A.S.):

- MATH 1332-Contemporary Math (Quantitative Reasoning) or another course from Mathematics core
- ENGL 1301- Composition I or another course from Communication core
- QCTC 1243- Quality Assurance
- PHYS 1305- Intro to Physics Lecture or another from Life and Physical Sciences core
- Econ 1301- Introduction to Economics or another from Social or Behavioral Sciences core
- MCHN 1330- Statistical Process Control for Machinist
- ARTS 1301- Art Appreciation or another from Creative Arts core
- MCHN 2435- Advanced CNC Machining
- MCHN 1352- Intermediate Machining I

Does the IHE partner currently have an articulation agreement with a four-year IHE detailing how a student's associate degree and accrued credits could lead to a baccalaureate degree?

No

Describe how this school provides its students with flexible class scheduling and academic mentoring.

After meeting several times with our IHE, it was decided that Lytle High School students would be bussed to the college campus for CNC program instruction. Students will attend class a minimum of 2.5 hours a day, twice weekly at the Southwest campus of St. Philip's College. To accommodate the instruction time spent away from the high school campus, program participants will follow a modified master schedule based on their graduation needs and extra-curricular involvement. Each program participant will meet with their academic counselor during the summer bridge program to review their four-year plan and create their individualized weekly/daily schedule. Provisions may include but are not limited to online instruction, blocked scheduling, zero-hour courses, and accelerated instruction.

Currently, there is a mentoring time set aside each day as part of the regular high school master schedule. Next year, program participants will be placed into smaller cohorts and assigned an academic mentor who will meet with them during this allotted time. Care will be given to providing for each student's emotional, social, and educational needs.

Certificates

Does this academy offer Associate Degrees to students?

Yes

Industry Certificates

Identify all industry certificates offered to students.

Certificate	Description
CNC Manufacturing Technician	The Manufacturing program is designed to prepare students for high performance manufacturing employment opportunities in C omputer Numerical Control (CNC) professions..

Level One Certificates

Identify all level one certificates offered to students.

Certification	Description
CNC Operator	The CNC Machinist certificate provides skills and knowledge in conventional machine operations on drill presses, lathes, milling machines and various grinding machines,

Level Two Certificates

Identify all level two certificates offered to students.

Certification	Description
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Key Elements for Success

Provide a link to your campus's website.

<https://www.lytleisd.org/domain/31>

Provide a link to the Program of Study.

<https://www.alamo.edu/spc/academics/programs/advanced-manufacturing-and-logistics/cnc-manufacturing-technician/>

Provide a link to the job description, roles of design team, leadership team, and advisory board.

<https://www.lytleisd.org/Page/1239>

Provide a link to your mission statement.

<https://www.lytleisd.org/Page/1239>

Provide a link to the final, signed, and executed MOU.

<https://www.lytleisd.org/Page/1239>

Provide a link for this campus's agreement with its IHE partner.

<https://www.lytleisd.org/Page/1239>

Provide a link for this campus's agreement with its business/industry partner(s).

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's master schedules.

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's written admission policy and enrollment application.

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's written recruitment plan including a timeline of recruitment and

enrollment events, and recruitment materials for distribution at feeder schools and other appropriate locations in the community

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's description of instruction practices.

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's internship and externship opportunities.

<https://www.lytleisd.org/Page/1239>

Provide a link to where the leadership team meeting documents (agendas, minutes, etc.) are posted for the school district.

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's Assessment strategy.

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's annual training or professional development plan with the academy and IHE faculty.

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's brochures and marketing in Spanish, English, and/or other relevant language(s) .

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's four-year crosswalk document.

<https://www.lytleisd.org/Page/1239>

Provide a link to the testing calendar and schedule for TSI, ACT, SAT or other assessments.

<https://www.lytleisd.org/Page/1239>

Provide a link to current dated regional high demand occupation list.

<http://www.workforcesolutionsalamo.org/services-2/jobseekers/targeted-demand-occupations>

Provide a link to aggregate data describing student participation in work-based learning experiences as well as percentage of students earning industry certification and credentials by type.

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's tutoring and bridge program schedules.

<https://www.lytleisd.org/Page/1239>

Provide a link of the calendar of regularly scheduled counseling/advisory events and records of completion for these support services.

<https://www.lytleisd.org/Page/1239>

Provide a link to the academy's calendar of family outreach events.

<https://www.lytleisd.org/Page/1239>

Industry/Business Partner

List up-to five key business partners for this campus that support students' program of study.

1. WCW Design Co.
2. Precise machine and Fab LLC
3. P&L Enterprises

Describe how business/industry partners currently support work-based and contextual learning for 9th grade students (i.e. through internships, externships, workforce training, etc).

The 2018-2019 school year is a planning year for Lytle ISD. Our target population for PTECH/ICIA program participation is the current 8th grade class at Lytle Junior High. These students have met daily with a certified educator in a career exploration course. The goal of this course is to lead students to begin to evaluate their unique strengths and interests, investigate future career options, and explore post-secondary education opportunities. This class has been a platform for guest speakers, field trips, workforce presentations, and even a "focus on manufacturing month".

If designated, interested students will enter into a cohort and begin CNC Operator training at St. Philip's College. As ninth grade students, the cohort will continue working with Workforce Solutions Alamo on the Lytle High School campus, to begin building resumes, learning important job-related social skills, and learning the importance of "high wage high demand" skilled employment.

Work-based experiences during this first year will include industry partner site visits, quarterly meetings with current workers in the manufacturing field, and a trip to at least one other manufacturing facility,

Lytle High School will also transport the cohort to "Monster Tech", an event sponsored by our IHE partner that includes career and technical explorations, hands-on manufacturing demonstrations, and laboratory tours. We also anticipate taking the cohort of students to "Construction Day Career Day" that is tentatively scheduled for October 2019, in San Antonio, Texas. This annual event provides students with face to face experiences with industry workers, the tools of their trades, and promotes career opportunities in the technical realm.

Describe how business/industry partners support or will support work-based and contextual learning for 10th grade students.

Tenth-grade students who are participating in the CNC cohort will have the opportunity to continue their relationship with Workforce Solutions Alamo. Resumes will be updated, skill-based portfolios will be created as students' technical coursework becomes more product driven, and continued instruction of employment-related soft skills will be provided.

Tenth-grade students will be expected to promote their training and skills at the annual Lytle ISD Showcase. Structured support from high school personnel and industry partners will encourage students to verbalize their aptitude of the CNC process and exhibit tangible evidence of competence in a public setting.

Students will continue to visit with our industry partners. Face to face "business meetings" will be scheduled quarterly. At least one manufacturing facility trip will be organized by Lytle ISD.

Describe how business/industry partners currently support or will support work-based and contextual learning for 11th grade students.

Work-based activities for 11th graders may include:

-continued employability training through Workforce Solutions Alamo- industry partners will provide insight and review of skills learned.

-continued quarterly business meetings with our industry partner. Mentorships will be encouraged.

-At least one site visit to a manufacturing facility.

-job shadowing with our industry partners or other manufacturing businesses

-Lytle ISD Showcase Show and Tell: Students will provide a digital and/or tangible presentation of their skills in action. Industry partners will be asked to attend alongside our students.

-Industry partners will participate in our annual resume review: 11th graders in the CNC cohort will have early admission as this activity is usually just focused on the 12th-grade class at Lytle High School.

Describe how business/industry partners currently support or will support work-based and contextual learning for 12th grade students.

Work-based activities for 12th graders may include:

- continued employability training through Workforce Solutions Alamo- industry partners will provide insight and review of skills learned.
- continued quarterly business meetings with our industry partner.
- at least one site visit to a manufacturing facility.
- continued job shadowing with our industry partners or other manufacturing businesses
- Lytle ISD Showcase Show and Tell: Students will provide a digital and/or tangible presentation of their skills in action. Industry partners will be asked to attend alongside our students.
- Practicum assignments (externships) with our industry partners.
- Industry partners will be included in mock-interviews and provide feedback for cohorts' final resume reviews

Does AT LEAST one of the school's current business/industry partnerships have an agreement that students completing the P-TECH/ICIA program and otherwise meet hiring requirements have priority interviewing with the applicable employer?

Yes

List which partner has an agreement that P-TECH/ICIA students have priority interviewing.

WCW Design Co. This agreement is in draft stage as we are still in the planning year.

Describe how the Academy will recruit, support, and retain highly qualified teachers.

Although Lytle High School will rely on St. Philip's College to provide qualified instructors for the CNC program, we feel it is imperative to mention the recruitment and support of the core curriculum teachers who make up the highly qualified staff at Lytle High School. Lytle ISD firmly believes in supporting its teaching staff and has stationed Academic Coaches in each of its schools to provide quality on-site professional development, one to one prescriptive assistance, and facilitated daily colleague interaction. In addition, our district has placed itself into a calculated innovative and progressive pathway that supports 21st Century facilities, technology, and training. Notable monetary stipends are provided for teachers of hard to fill, hard to retain subject areas.

TSIA

Does this academy administer the TSIA exam?

Yes

What ID number do students use when taking the TSIA exam?

Unique State Assigned ID