

Programs of Study Deep Dive



- 1. What are the benefits of implementing a statewide program of study?
- 2. What are some challenges of implementing a POS?
- 3. Who should be involved in decision making of the POS that will be implemented?



Data Collection & Reporting





TEAD Career & Technical Education Indicator Definitions





- **1S1:** Four-Year Graduation Rate
- **1S2:** Extended Graduation Rate
- **2S1:** Academic Proficiency in Reading/Language Arts
- **2S2:** Academic Proficiency in Mathematics
- **2S3:** Academic Proficiency in Science

- **3S1:** Postsecondary Placement
- **4S1:** Non-traditional Program Enrollment
- **5S1:** Attained recognized Postsecondary Credential
- **5S4:** Program Quality: CTE Completer



2017-2018 Graduation Cohort

- CTE Indicator Code Calculated using:
 - Course completion records from previous seven years
 - Statewide programs of study course sequences
- Provides opportunity to use data to improve student outcomes



TEAR Texas Education Agency Cluster 2017-18 cohort



CTE Concentrators
CTE Completers

TEA 1S1: Graduation Rate (2017-18 cohort)





2S1: Academic Proficiency in Reading/Language Arts (2017-18 cohort) **Texas Education Agency**

Of CTE Learners met or exceeded standard on the English I and English II EOC exam

58.13%



CTE Learners

50.63%

Of Non-CTE Learners met or

English I and English II EOC exam

exceeded standard on the



■ Non-CTE Learners CTE Learners

TEA Academic Proficiency in Math

Of CTE concentrators met or exceeded standard on the Algebra I EOC exam

47.27%

38.52% Of all others met or exceeded standard on the Algebra I EOC



exam



■ Non-CTE Learners ■ CTE Learners

TEA Academic Proficiency in Science

Of CTE concentrators met or exceeded standard on the Biology I EOC exam

59.62%





Non-CTE Learners CTE Learners



Solution Agency 3S1: Postsecondary Placement, by Cluster (2017-18 cohort)

48.75%

employed, enrolled in

the military the quarter following graduation.

Of Non-CTE Learners were

postsecondary education, or in



TEA Postsecondary Credential Attainment



3.58%

Of all other students earned an IBC, Level I or Level II Certification, or an associate degree.



Statewide Programs of Study

TEA Statewide Programs of Study

Agriculture, Food and Natural Resources	Architecture and Construction
Agribusiness Animal Science Applied Agricultural Engineering Environmental and Natural Resources Food Science and Technology Plant Science	Architectural Design Carpentry Construction Management and Inspection Electrical HVAC and Sheet Metal Masonry Plumbing
Arts, AV Technology and Communications	Business, Marketing and Finance
Digital Communications Graphic Design and Multimedia Arts	Accounting and Financial Services Business Management Entrepreneurship Marketing and Sales



Education and Training	Energy
Early Learning Teaching and Training	Oil and Gas Exploration Refining and Chemical Processes
Health Science	Hospitality and Tourism
Exercise Science Health Informatics Healthcare Diagnostics Healthcare Therapeutic Medical Therapist Nursing	Culinary Arts Lodging and Resort Management Travel, Tourism and Attractions



Human Services	Information Technology
Family and Community Services Health and Wellness	Information Technology Support and Services Networking Systems Web Development
Law and Public Service	Manufacturing

TEA Statewide Programs of Study

Science, Technology, Engineering, and Mathematics	Transportation, Distribution and Logistics
Bio-Medical Science Cybersecurity Engineering Programming and Software Development Renewable Energy	Automotive Aviation Maintenance Diesel and Heavy Equipment Distribution and Logistics



Program of Study Resources



Programs of Study Framework Document

- For use by School Administrators and counselors
- Each program of study has a framework document





Program of Study Framework Document

- Career Cluster
- Program of Study Name
- Course Sequences by Level
 - Flexibility of courses by level
 - Completer definition: three or more courses for four or more credits with one advanced course





Program of Study Framework Document

POSTSECONDARY OPTIONS

- Postsecondary Options
- Labor Market Data
- Work-based Learning Opportunities

HIGH SCHOOL/	CERTIFICAT <u>E</u> /	ASSOCIATES	BACHELOR'S	MASTER'S/ DOCTORAL	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	GROWTH
CERTIFICATION	LICENSE*	DEGREE	DEGREE	PROFESSIONAL DEGREE	Accountants and Auditors	\$71,469	14,436	22%
QuickBooks Certified User	Certified Management Accountant	Real Estate	Real Estate Accounting		Loan Officers	\$68,598	2,419	19%
Microsoft Office Specialist or	Certified Internal Auditor	Financial, General		Business Administration	Personal Financial Advisors	\$86,965	1,861	52%
Expert - Excel					Administrative Service Managers	\$96,138	2,277	21%
Certified Insurance Service Representative	Certified Income Specialist	Financial Planning and Services		Financial Planning	Insurance Underwriters	\$66,206	594	14%
	Certified Public Accountant	Certified Income Specialist			WORK BAS	ED LEARN RNING OP	ING AND EXP PORTUNITIES	ANDED
					Exploration Acti Business Profes	Exploration Activities: Work Based Le Business Professionals Activities:		arning
Additional in	ndustry based certifica	tion information is ava	ailable from the TEA C	TE website.	of America (BPA), Future Internship with k			local);
	For more info for this pro	rmation on postseco gram of study, visit ⁻	ndary options TXCTE.org.		America (FBLA), DECA	and (Aicrosoft Office MOS) certificat	Specialist tions



Program of Study Framework Document

The Accounting and Financial Services program of study teaches CTE concentrators how to examine, analyze, and interpret financial records. Through this program of study, students will learn the skills necessary to perform financial services, prepare financial statements, interpret accounting records, give advice, or audit and evaluate statements prepared by others. This program of study will also introduce students to mathematical modeling tools.



The Business, Marketing, and Finance Career Cluster® focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Successful completion of the Accounting & Financial Services program of study will fulfill requirements of the Business and Industry Endorsement. Approved Statewide Program of Study - September 2019





Accessing the POS Resources



The Latest TEA News

The latest news from the Texas Education Agency is available through news releases, online correspondence, mailing lists, and other posted information.





Accessing the POS Resources





Accessing the POS Resources

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nago to	This site provides you Education (CTE). We want	with information on curric	culum, programs, rules, an s you may have that will in	nd other information for Car	eer and Technical	Advanced Academics				
page to	provide high quality ca	reer and technical progra	ams for students. Join the	CTE mailing list and receiv	e updates.	Armed Services Vocational Aptitude Battery (ASVAB)				
	Career and technical e	ducation programs offer	a sequence of courses that	at provides students with co	oherent and	Career and Technical Educ	ation			
access the	skills needed to prepar	content is aligned with cl e for further education a	nallenging academic stand nd careers in current or en	Pathways Initiatives						
	Statewide CTE Pro	ograms of Study Pu	blic Comment			Texas College and Career I Nodels	Readiness School			
POS	Texas Education Agen	cy (TEA) requests prelin	ninary public comment on	proposed Career and Tech	nical Education					
	(CTE) statewide progra coordinators, CTE tead	ams of study. We encour chers, and counselors.	age feedback from district	and campus level adminis	trators, CTE	Contact Information				
racourcas	The Division of College	e, Career, and Military Pr	eparation has engaged me	embers of the workforce, se	econdary	Contact Information				
i cources	education, and higher courses, industry-base	education to advise on the ducation to advise on the ducations, and work	ne development of progran k-based learning to ensure	ns of study, including coher students are prepared for	ent sequences of in-demand, high-	Ryan Merritt, State Director				
	skill, high-wage career	s in Texas. The propose	d programs of study are so	cheduled to go into effect fo	r the 2020-2021	Career and Technical Educa ryan.merritt@tea.texas.gov	ation			
	for the 21st Century Ac	t (Perkins V). The publi	c comment documents car	n be viewed by following the	e link below:	Debbie Wieland, Assistant	Director.			



Accessing the POS Resources

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Approved CTE Programs of Study

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Statewide Programs of Study Resources



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The Programs of Study Accessible Versions are

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Activity: Local Workforce Labor Market Data

Texas Statewide Labor Market Information, 2016-2026

State	Program	SOC	Occupation	Growth	Median	Growth	Annual Avg.	Total	Competitive
Career	of Study		Title	Rate	Annual	Wage	Employment	Annual	Education
Cluster					Wage 2013	Category	2016	Openings	Requirement

State Career Cluster	Program of Study	SOC	Occupational Title	Growth Rate	Median Annual Wage 2018	Growth Wage Category	Annual Average Employment 2016	Annual Average Employment 2026	Total Annual Openings	Competitive Education Requirement
Health Science	Healthcare Therapeutic	29-1071	Physician Assistants	45%	\$110,081	HIGH/HIGH	6,698	9,735	738	Master's degree
Health Science	Nursing Science	29-1171	Nurse Practitioners	44%	\$108,658	HIGH/HIGH	9,059	13,031	927	Master's degree
Health Science		29-9092	Genetic Counselors	40%	\$95,023	HIGH/HIGH	84	118	8	Master's degree
Health Science	Medical Therapy	31-2021	Physical Therapist Assistants	37%	\$69,923	HIGH/HIGH	6,845	9,395	1,209	Associate's degree
Health Science	Healthcare Therapeutic, Medical	31-2011	Occupational Therapy Assistants	36%	\$72,929	HIGH/HIGH	3,762	5,120	677	Associate's degree
Health Science	Medical Therapy	29-1126	Respiratory Therapists	35%	\$58,931	HIGH/HIGH	11,784	15,943	1,056	Associate's degree
Health Science	Healthcare Diagnostics	29-2032	Diagnostic Medical Sonographers	35%	\$71,552	HIGH/HIGH	5,228	7,039	493	Associate's degree
Health Science	Medical Therapy	29-1123	Physical Therapists	31%	\$91,064	HIGH/HIGH	16,113	21,138	1,248	Master's degree
Health Science	Medical Therapy	29-1122	Occupational Therapists	30%	\$87,781	HIGH/HIGH	9,847	12,823	846	Master's degree
Health Science	Health Informatics	11-9111	Medical and Health Services Managers	30%	\$95,583	HIGH/HIGH	22,732	29,464	2,655	Bachelor's degree
Health Science	Medical Therapy	29-1127	Speech-Language Pathologists	27%	\$71,939	HIGH/HIGH	14,247	18,113	1,183	Master's degree
Health Science	Healthcare Therapeutic	29-1181	Audiologists	27%	\$75,027	HIGH/HIGH	1,152	1,461	88	Doctoral or professional degree
Health Science	Exercise Science and We	29-9091	Athletic Trainers	26%	\$57,925	HIGH/HIGH	3,066	3,871	252	Bachelor's degree

- Work within your district teams
- Review the Labor Market Data for your Local Workforce Development Board(s)
- Select the top three programs of study you think should be implemented based on the opportunities for students
- Determine justification for your selections
- Record your selections and justifications on the graphic organizer provided



Labor Market Data POS Planning Process

Programs of Study School District Should Offer







How does what you are offering compare to the statewide programs of study?

- Compare one of your current course sequences to a statewide program of study.
- Do you offer enough courses within a program of study for students to earn CTE Completer status?
- What challenges do you anticipate aligning with the programs of study?





Reflection Questions

Use the Post It notes at your table to answer the following questions

- 1. What course sequence changes could align your offerings to a statewide program of study?
- 2. Based on the LMI data you reviewed, what statewide programs of study are not currently being offered in your district/campus that could be?
- 3. What are your ahh ha's?
- 4. What are your remaining questions? (Please record on a post it with your name for follow up.)

Place the Post Its on the appropriate poster as you exit the room



TEA's Career and Technical Education Team





Avery Barrera Arts, AV Technology & Comm's Industry Based Certifications



Les Hudson Agriculture, Food & Natural Resources Architecture and Construction Manufacturing



Laura Torres Energy Information Technology

Ryan Merritt CTE Director



Dale Fowler Business, Marketing & Finance Law, Public Safety

Kevin Johnson Health Science Transportation, Distribution & Logistics



Debbie Wieland Education and Training Hospitality & Tourism Human Services