TSTC ONLINE COMPETENCY-BASED EDUCATION (CBE)

Goal: Develop online, competency-based programs for technicians pursuing careers in Architectural Design and Engineering Graphics Technology (CAD) and Cybersecurity.

OBJECTIVES

1) Update existing curricula to respond to current industry demands.
2) Provide professional development for faculty.
3) Provide ongoing mentoring and support services for students.
4) Develop a CBE online that can be used in other CTE fields and by other institutions.
5) Improve job placement opportunities so that degree program graduates will be placed promptly and appropriately.
6) Provide academic and career opportunities for nontraditional and rural students.

FIRST-YEAR GRANT ACTIVITIES

CURRICULUM/ONLINE (1)(4)

- Added Cyber Security Marketable Skills to Skills Engine Calibrate for soliciting feedback from industry experts and for alignment with industry needs for for Cyber Security Analyst and Network Security Specialist positions.
- Program transitioned to full online delivery with focus on Competency Based Education (CBE)/Performance Based Education (PBE) (March 2020)
- Online templates and Replication Documentation developed. [Slide Deck, Resources, Check for Understanding, Lab Template, Knowledge and Performance Assessment templates]
- 79% completion of deconstruction of traditional didactic course components into competencies (AAS degree) for Cybersecurity Program
- Developed instructor-generated online videos and course content for some Cyber and ADEG courses.

PROFESSIONAL DEVELOPMENT (2)

- PBE Playbook developed
- ADEG and Cybersecurity faculty statewide received 2-day PBE orientation and content development training using the TSTC PBE Playbook; Training extended to Heating, ventilation and air conditioning (HVAC) Program faculty
- Online enrollment coaches (9) statewide received training on how to work with online PBE students for assisting enrollment in the online PBE courses
- Approximately 50% of Faculty attended Basic Online Training (BOT)

TRAINING + JOB = TSTC FUNDING

Legislature funding based on results-based (outcomes) formula

Return on investment based on students' success and earnings

COLLABORATION / PARTNERSHIPS

- AIA Engineers Consultants
- CYFOR
- Eastern Shore Community College
- SEVEN Networks
- Texas Society of Professional Surveyors (TSPS), Chapter 19
- Waco Independent School District economic development

TSTC Texas State Technical College

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