

# Comprehensive Program Review Report



## Program Review - Industry and Technology

### Program Summary

#### 2022-2023

**Prepared by:** Mario Bringetto, Travis Asher, Shane Souza

**What are the strengths of your area?:** 1. High pass rates with an average of 96.4% pass rate during 2021-2022. The 2025 pass rate goal for IT is 78%, while the actual pass rate in 2021-2022 was 96.4%. The 2025 student pass rate goal has been met.  
2. Equity was assessed and determined to be acceptable levels of pass rate for Hispanic students at 91% with White students at 91%.  
3. Strong academic cohorts, programs, and courses across multiple campuses.  
4. Academic programs are strategically tied to workforce expectations. This helps ensure robust career opportunities for graduates. Recent data collection indicates approximately eighty-five percent of students are employed in the field or are continuing their education to pursue a BS.  
5. Strong industry advisory board and industry relationships that ensure curriculum and instruction align to employer expectations.  
6. Utilizing real world trainers creates a realistic learning atmosphere and encourages engagement.  
7. Faculty coming from industry are a benefit to the program because they have been recently employed in the career they instruct.  
8. Offering multiple certificate levels gives students more options on how advanced the training they receive will be.  
9. Support from the student success program; students who choose to enroll in the program have support in a variety of skills like study skills, time management, and employment preparation.  
10. Jumpstart Internship summer program implemented summer 2022 to expose HS students to ITEC programs.

**What improvements are needed?:** 1. Updated equipment and motor control areas and welding supplies and accessories for Industrial Maintenance.

2. Apprenticeship program development between ITEC programs and local industry.

**Describe any external opportunities or challenges.:** PLC troubleshooting/programming basics course being offered to industry through TRC.

Locating classical vocational trainers that offer hands on training features; some have been located but there is challenge to replace older equipment.

Supply chain issues causing long delays in arrival times for controls hardware.

**Overall SLO Achievement:** Industrial Automation: Out of a total of 24 SLOs for the courses of the industrial automation program, 24 SLOs have been satisfactorily achieved for the 2022 assessment cycle.

**Changes Based on SLO Achievement:** Industrial Automation: No changes were made to the SLOs.

**Overall PLO Achievement:** Industrial Automation: Out of the 3 PLOs for the industrial automation program, 3 have been satisfactorily achieved for the 2022 assessment cycle.

**Changes Based on PLO Achievement:** Industrial Automation: No changes were made to the PLOs.

**Outcome cycle evaluation:** Assessment cycle works for us in ITEC, as every two years we must assess our SLOs to maintain current assessments.

**Action: 2023-2022 Increase student access to equipment to provide equipment for a a full cohort (VTEA + Strong Workforce) to meet**

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## SLOs.

Increase student access to equipment to purchase:

1. Hydraulic trainer replacement equipment
2. Control Logic equipment for programmable logic control instruction
3. DC drives and motors
4. I/P Converters

**Leave Blank:**

**Implementation Timeline:** 2021 - 2022, 2022 - 2023

**Leave Blank:**

**Leave Blank:**

**Identify related course/program outcomes:**

**Person(s) Responsible (Name and Position):** Shane Souza; Mario Bringetto; Travis Asher

**Rationale (With supporting data):** The strength of the ITEC program depends on hands on training equipment with current industrial equipment

**Priority:** High

**Safety Issue:** Yes

**External Mandate:** Yes

**Safety/Mandate Explanation:** Advisory Boards require updated equipment similar to what is used in the workforce.

### Update on Action

#### Updates

**Update Year:** 2021-2022

09/29/2022

**Status:** Continue Action Next Year

ControlLogix equipment has been purchased.

**Impact on District Objectives/Unit Outcomes (Not Required):**

## Resources Description

**Equipment - Instructional** - Motor control trainers - \$54,000

Hydraulic power units - 2 - \$6,000

Hydraulic actuator systems - 2 - \$6,000

Control Logic PLC equipment - 6 trainers + software - \$20,000

Horizontal Bandsaw -1 - \$8,000

Electrical enclosures - \$5,000

DC Drives and Motors - \$7,000

I/P Converters - \$3,000

PLC programming Cables - \$500

(Active)

**Why is this resource required for this action?:** Updated equipment is required for student safety as several trainers are out of date.

**Notes (optional):** These are the equipment requests for ITEC in Tulare Annex and Hanford locations

**Cost of Request (Nothing will be funded over the amount listed.):** 100000

## Link Actions to District Objectives

District Objectives: 2018-2021

**District Objective 2.1** - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years

**District Objective 2.4** - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5

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percentage points

District Objectives: 2021-2025

**District Objective 2.1** - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.

**District Objective 2.4** - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.

## Action: 2022-2023 Increase enrollment in ITEC courses

Increase ITEC enrollment through HS recruitment and outreach; WIB/Employment Connection; increase underserved populations such as women in industry; increase Perkins Core Indicators

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**Implementation Timeline:** 2021 - 2022, 2022 - 2023

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**Leave Blank:**

**Identify related course/program outcomes:** Increase enrollment; improve CTE outcomes for local students and unemployed

**Person(s) Responsible (Name and Position):** Jonna Schengel, CTE Dean + CTE Outreach team

**Rationale (With supporting data):** Data is being used to assess local high school enrollment in ITEC programs. This could be enhanced through TKCCC activities - outreach portable labs/trailers.

**Priority:** Medium

**Safety Issue:** No

**External Mandate:** Yes

**Safety/Mandate Explanation:** High wage high quality pathways in ITEC by the CCCCCO/CRC and TKCCC

### Update on Action

#### Updates

**Update Year:** 2022 - 2023

08/31/2022

**Status:** Continue Action Next Year

Continuing effort to increase ITEC enrollment through HS outreach and marketing. Jumpstart Internship summer program has been implemented in summer of 2022 to expose local high school juniors to ITEC programs.

**Impact on District Objectives/Unit Outcomes (Not Required):**

## Link Actions to District Objectives

District Objectives: 2018-2021

**District Objective 1.1** - The District will increase FTES by 1.75% over the three years

District Objectives: 2021-2025

**District Objective 1.1** - The District will increase FTES 2% from 2021 to 2025.

**District Objective 2.4** - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.

## Action: 2022-2023 Increase student employment through employer

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## relations.

Bring together industry partners to meet prospective students and fill career openings.

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Implementation Timeline: 2022 - 2023

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Identify related course/program outcomes:

Person(s) Responsible (Name and Position): Mario Bringetto Instructor

Rationale (With supporting data):

Priority: Medium

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

### Update on Action

#### Updates

Update Year: 2022 - 2023

09/30/2022

Status: Continue Action Next Year

Pilot Jumpstart internship program run in summer 2022, will be continuing to expand program.

Impact on District Objectives/Unit Outcomes (Not Required):

## Action: Overcoming math challenges.

Make students aware of the new math class designed for trade workers. Provide literature for students to practice and prepare for the program, to overcome supply chain and textbook issues.

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Implementation Timeline: 2022 - 2023

Leave Blank:

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Identify related course/program outcomes:

Person(s) Responsible (Name and Position): Mario Bringetto Instructor

Rationale (With supporting data):

Priority: Medium

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

### Update on Action

#### Updates

Update Year: 2022 - 2023

09/30/2022

Status: Action Completed

Math 270 has been added to course offerings. Future goal to extend course to dual enrollment to allow students to take the course before enrolling in ITEC programs.

Impact on District Objectives/Unit Outcomes (Not Required):