

Comprehensive Program Review Report



Program Review - Electrician Training

Program Summary

2020-2021

Prepared by: Shane Baesemann

What are the strengths of your area?: Our Employment, our advisory members, local electrical contractors, and market data confirm the need for electrician and electrician trainees in our area.

Student success data has demonstrated improved student pass rates: in 2017-2018 the pass rate from the ET courses averages 79%; in 2019-2020 it improved to 89%.

College of the Sequoias is listed by the state of California as school #122 which allows our students to be afforded the ability to be a registered Electrician Apprentice. This designation is what strengthens our students profile for employment.

We have two full time faculty members and one adjunct instructor. One full time instructor is designated full time to the Tulare Accelerated Charter High School and teaches dual enrolled courses. Our new full time faculty member teaches at our Tulare location. Our adjunct faculty member teaches at our Hanford campus. All of our courses have the same text and outcomes, and we have seen a significant increase in enrollment and certificates.

What improvements are needed?: More course offerings, and additional sections for current courses. COS offers our entry level class every semester, and is now offering it at all campuses each year. While the addition of a full time instructor has aided this need, our courses are still near capacity. Labor data shows there is a strong need for qualified employees, but our advisory committee also has expressed a need for more versatile field of employees. COS has introduced a CTE math course that is designed to meet the needs of our math deficient students. Our Industrial Maintenance department has created a PLC course designed for non-IM students. We are also creating new courses that are designed to strengthen our current courses.

Describe any external opportunities or challenges.: Adjunct faculty - Our instructors are typically required to have a college degree as well as a license with experience. Most of our Electrician Training courses are offered in the evening time to accommodate our students work schedules. Our course schedule, the ability to compete against salaried employment, and job requirements are the main obstacles in recruiting additional faculty.

We are constantly updating equipment and labs to offer our students every advantage, but we still need to do more. Additional courses that need to be developed and implemented would help give our students exposure to advanced skills needed to keep up with the constantly evolving trade.

Overall SLO Achievement: Our SLO's are constantly being met throughout our course. Our SLO's are tied directly to our modules to help reinforce the materials that are being covered in our lectures.

When analyzing the SLO's in our Electrician courses we remain very satisfied with the outcomes. Our students are able to exceed our SLO expectations.

Changes Based on SLO Achievement: We are constantly updating our materials and techniques to continually evolve our SLO's. We have implemented additional support by creating videos and online demonstrations that students have access to at all times.

Overall PLO Achievement: Our students have met the PLO's. We are satisfied with our current status.

Changes Based on PLO Achievement: The need to incorporate distance learning aspects to our PLO's. We still offer our traditional approach but have begun implementing online and distant learning segments. We are working with our employers

and advisory committee to create our content which includes, video demonstrations, technical presentations, and video quizzes
Outcome cycle evaluation: They are accessed every three years.

We have continued to meet the given schedule that we have been given, and with the addition of a new full time faculty the participation as an entire unit will evolve. We will join together and discuss issues or new ideas.

Action: 2020-2021 Improve student success by providing adequate number of training equipment/materials (VTEA)

Each ET student needs access to individual circuit panels, motor controls and bending equipment. The individual stations allow for skill development and improved student evaluations.

Leave Blank:

Implementation Timeline: 2020 - 2021

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Identify related course/program outcomes: All SLO from ET courses

Person(s) Responsible (Name and Position): Shane Baesemann

Rationale (With supporting data): Equipment must be provided to students to learn hands on skills required to ET.

Priority: High

Safety Issue: Yes

External Mandate: No

Safety/Mandate Explanation:

Resources Description

Equipment - Instructional - Motor controls, automation equipment, bending materials, electrical circuits (Active)

Why is this resource required for this action?: Needed to provide students equipment for hands on learning and assessment.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 15000

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 percentage points

Action: 2020-2021 Improve student success through faculty development/curriculum development (VTEA)

ET faculty need ongoing development in order to provide new classes that allow career exploration in the I and T Division.

Leave Blank:

Implementation Timeline: 2020 - 2021

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Identify related course/program outcomes: SLO in ET 200.

Person(s) Responsible (Name and Position): Shane Baesemann

Rationale (With supporting data): Faculty development for tenure track faculty to improve student success and create meaningful classroom/lab sessions.

Priority: Medium

Safety Issue: No

External Mandate: No

Program Review - Electrician Training

Safety/Mandate Explanation: 5000

Resources Description

Technology - Ongoing faculty development through technology; Canvas coordination. (Active)

Why is this resource required for this action?: Ongoing faculty development

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 5000