

Comprehensive Program Review Report



Program Review - Electrician Training

Program Summary

2022-2023

Prepared by: Shane Baesemann

What are the strengths of your area?: The strength of the Electrician Training program is enrollment. We have well over 200 students enrolled in our program. With the addition of a full time faculty member we have had to increase the number of course offerings each semester. We are offering every one of our courses during a given semester. We have never been able to accomplish this. With our increased number of students we are able to fill all of the courses. We continue to increase the number of certificates of achievement over the last few years and are on track to keep increasing. Another accomplishment is our department is now offering a Associates degree in Electrician training which makes our classes more accessible to students with financial needs as well as Veterans. We have awarded 46 certificates within the last year in Electrician Training. With an overall pass rate of 88.3 percent. Our enrollment and success rates are currently very close between white and Hispanic students. Hispanic students are succeeding at a rate of 88%, with the white students slightly better at 90%.

What improvements are needed?: Although our enrollment is strong and our certificate numbers are up we still need to improve our course offerings. We need more advanced systems labs. We are trying to coordinate with our ITEC, and PLC courses to have our students take those courses to supplement their learning. Our ITEC class is part of our degree requirements. Students need to be able to think critically and be prepared to adapt and interact with their surroundings. We have challenged our students to become better at critical thinking by giving them external books to help further develop soft skills and to become better at problem solving.

Describe any external opportunities or challenges.: We have a huge opportunity with the new energy and infrastructure deal that has been reached. Our students are going to have several opportunities for advancing or becoming employed. Through VTEA funding we can purchase lab equipment that will help give them the hands on experience to meet this demand. It is an exciting and challenging time for our students. Excitement lies with the advancing industry, but challenging in having the confidence in knowing they can be successful. With the changing technologies, electricians are going to be instrumental in guiding civilization into the future. Our students have supplemental lab materials that focus on sustainable energy and have been tasked with reading informative books that focus on the changing electrical industry.

Overall SLO Achievement: I am satisfied with our SLO achievements, but with COVID and other factors we need to continue to improve our students access to lab equipment. We need to improve an advance some of our SLO's to incorporate the advancing industry trends. There are SLO's that are never going to change they too are an integral part of the industry and the installation of systems. However we need to be adept and focus on moving forward with other industry trends. We continue to work on new labs that would help enhance our student learning outcomes, but are slowly beginning to test them as supplemental exercises before implementing them into our courses permanently. The advantage to having every course offered in a semester is that it helps us identify areas where we can improve almost instantaneously as opposed to waiting for two years in between courses.

Changes Based on SLO Achievement: Our SLO's need to stay consistent with our curriculum, and since our curriculum is predetermined we are supplementing and updating the equipment used for our SLO's with more advanced labs that pertain to the modernizing of the field. One item that does need to be addressed is increasing our students access to lab equipment. VTEA funds are a necessity to make sure we enough lab trainers set up to support our labs to support the increasing number of students. Our motor control lab for instance needs to be able to adapt to the changing technologies, we need to give our students better access to those changes. We need to continue to purchase and supply the equipment that they will see currently or in the future, not what has been decommissioned. Currently we are sharing lab components and the students are not afforded the maximum amount of time on a given task due to our limited materials. With our increased enrollment it has become apparent our students need more lab materials, as simple as additional power tools, benders, pipe, etc., all things we need VTEA funds to help facilitate.

Overall PLO Achievement: N/A

Changes Based on PLO Achievement: N/A

Outcome cycle evaluation: We continue to offer as many courses in our department as we can. We are also working on creating new courses that will help supplement our current courses. Our labs and our lab areas have continued to improve, but I feel with our enrollment our students are far outnumbering our equipment. Our student success rate and our certificate completions continue to be among the highest they have ever been, but we need to give the students more opportunities to work individually in the lab environment. We continue to construct and develop hands on labs that challenge our students to be more prepared for the workforce.

Action: 2022-2023, 2021-2022; 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, 2021 - 2022, 2022 - 2023

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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:

Update on Action

Updates

Update Year: 2022 - 2023

10/14/2022

Status: Continue Action Next Year

We have increased our number circuit panels, bending equipment, and motor control parts. We need to continue this action because we have increased our enrollment to 160 students and more of this equipment is still needed.

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

Update Year: 2021-2022

10/18/2021

Status: Continue Action Next Year

Continue to update labs with individual circuit panels

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

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.): 20000

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 2.4 - 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, 2021-2022; 2020-2021 Improve student success through faculty development/curriculum development (VTEA)

ET faculty needs more training to finish developing new Sustainable Energy Course.

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Implementation Timeline: 2020 - 2021, 2021 - 2022, 2022 - 2023

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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): The industry is advancing and we need to add courses that further develop our students employability in the sustainable energy market.

Priority: Medium

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Update on Action

Updates

Update Year: 2022 - 2023

10/14/2022

Status: Continue Action Next Year

Due to COVID the course that has been developed has been put on hold for further evaluation. The course Sustainable Energy is designed to be applicable for electrician training, construction technology and architecture.

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

Update Year: 2021-2022

10/18/2021

Status: Continue Action Next Year

Ongoing Faculty development and curriculum review as an ET teaching team.

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

Resources Description

Technology - Ongoing faculty development through new course development. (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

Link Actions to District Objectives

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.

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