**Continuous Improvement Plan Report to be Completed in Years 2/4 of Program Review Cycle**

**Date:02-17-2025 Name of Program: Construction Technology-Electrical**

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**Table 1: CIP Student/Program Level Learning Outcomes Targeted for Improvement, Description of Assessment Measure(s) and Targets Levels of Success Table (focus on at least one student/program level outcome for the next two years)**

**Description of Fields in CIP Table 1:**

**A. Student Learning Outcome(s)** -Results expected in this program (e.g., students will be able to compare/contrast conflict and structural functional theories). Outcomes must be quantifiable and measurable.

**B. Assessment Measure(s)** –Assessmentinstrument(s)/process(es) used to measure results (e.g., embedded test questions 6 & 7 from final exam)

**C. Targeted Level(s) of Success** -Level of success expected (e.g., X% of students will score at least Y on the indicated assessment)

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| 1. **Student/Program Level Learning Outcome(s)**   **Targeted for Improvement**  (e.g., “Students will be able to…”) | **B. Description of Assessment Measure(s)**  (Assessment instrument(s)/process(es) used to measure results - Include course in which assessment will be given) | **C. Targeted Level(s) of Success**  (e.g., X% of students will score at least Y on the indicated assessment.) |
| Students will be able to calculate the proper size of electrical components, circuits, and overcurrent protection to meet the requirements of the National Electrical Code. | Final exam in ELPT 1325-National Electrical Code I that will include multiple choice and short answer questions requiring students to demonstrate the ability to properly size electrical components, circuits and overcurrent protection according to the National Electrical Code. | 80% of students will score 70% or higher on the final exam in ELPT 1325. |
| Students will be able to demonstrate proper techniques related to wiring methods. | Final project in ELPT 1329-Residential Wiring requiring students to demonstrate hands-on industry standard wiring techniques and standard OSHA safety measures for one or more residential wiring scenarios. | 80% of students will score a 70% or higher on final project in ELPT 1329 |
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**Add additional rows if necessary.**

**Table 2. CIP Student Learning Outcomes 1–3 (focus on at least one for the next two years)**

**Description of Fields in CIP Table 2:**

**A. Student/Program Level Learning Outcome(s) Targeted for Improvement** -Results expected in this program (e.g., Students will be able to compare/contrast conflict and structural functional theories). Outcomes must be quantifiable and measurable.

**B. Assessment Measure(s)** – **Assessment** Instrument(s)/process(es) used to measure results (e.g., embedded test questions 6 & 7 from final exam)

**C. Targeted Level(s) of Success** -Level of success expected (e.g., X% of students will earn a score of Y or greater on the embedded test questions)

**D. Description of Action Plan to Improve Learning** -Describe action(s) to be taken to improve student attainment of the indicated student/program level outcome. What will you do?

**E. Summary of Results/Data** - Summarize the information and data collected in year 1/3 when action plan was implemented.

**F. Findings** - Explain how the information and data has impacted the expected student learning outcome.

**G. Implementation of Findings** – Describe how you have used or will use your findings and analysis of the data to make improvements.

**Student/Program Level Learning Outcome Targeted for Improvement #1**

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| 1. **Student/Program Level Learning Outcome Targeted for Improvement #1:**   (ELPT 1325; National Electrical Code I; PLO 2.1)  Students will be able to calculate the proper size of electrical components, circuits, and overcurrent protection to meet the requirements of the National Electrical Code. | |
| 1. **Assessment Measure(s):**   Final exam in ELPT 1325-National Electrical Code I that will include multiple choice and short answer questions requiring students to demonstrate the ability to properly size electrical components, circuits and overcurrent protection according to the National Electrical Code. | 1. **Targeted Level(s) of Success:**   80% of students will score 70% or higher on the final exam in ELPT 1325. |
| 1. **Description of Action Plan to Improve Learning:**   Give quizzes and worksheets in lieu of chapter exams that will help results on final exam. | |
| 1. **Summary of Results/Data:**   64% of students earned 70% or higher on their final exam. | |
| 1. **Findings:** The data shows that the service load calculations are difficult but the results of my program results are higher than the national average for Journeyman and Master Electricians. | |
| 1. **Implementation of Findings:** We are going to add more worksheets with calculations for a better understanding.   We will add more real life and electrical job scenarios to help better understand why we are doing certain calculations.  We will do a lab after we calculate the size of the electrical components. | |

**Student/Program Level Learning Outcome Targeted for Improvement #2**

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| 1. **Student/Program Level Learning Outcome Targeted for Improvement #2:**   ELPT-1329; Residential Wiring; PLO 1.1 | |
| 1. **Assessment Measure(s):**   Final project in ELPT 1329-Residential Wiring requiring students to demonstrate hands-on industry standard wiring techniques and standard OSHA safety measures for one or more residential wiring scenarios | 1. **Targeted Level(s) of Success:**   80% of students will score a 70% or higher on the final project. |
| 1. **Description of Action Plan to Improve Learning:**   Give quizzes and worksheets in lieu of chapter exams that will help results on final project. | |
| 1. **Summary of Results/Data:**   73% of students earned a 70% on their final project. | |
| 1. **Findings:**   The data shows that residential wiring and electrical is difficult to learn. My electrical average is higher than the national average on Journeyman and Mater Electrician exam. | |
| 1. **Implementation of Findings:**   We are going to add more labs for students to wire prior to giving the final lab exam.  We are going to add more lab time for students to gain more knowledge through hands-on experience.  We are going to have the students to draw more wiring diagrams for a better understanding of the labs weeks prior to the final lab exam. | |

**Student/Program Level Learning Outcome Targeted for Improvement #3**

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| 1. **Student/Program Level Learning Outcome Targeted for Improvement #3:** | |
| 1. **Assessment Measure(s):** | 1. **Targeted Level(s) of Success:** |
| 1. **Description of Action Plan to Improve Learning:** | |
| 1. **Summary of Results/Data:** | |
| 1. **Findings:** | |
| 1. **Implementation of Findings:** | |

**Program Assessment Data Report**

**Program: \_\_\_\_\_\_Construction-Electrical\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Terms Data Collected: \_\_Fall 2024\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| Program-Level Learning Outcome- (From Assessment Plan) | Assessment Measure(s) and Were Implemented in Curriculum – (From Assessment Plan) | Target Outcome(s)- Level of Success Expected – (From Assessment Plan) | Assessment Results – (Provide data in a form related to targeted levels of success to left. Indicate if targeted level of success was met, partially met, or not met.) |
| Students will be able to calculate the proper size of electrical components, circuits, and overcurrent protection to meet the requirements of the National Electrical Code. | (PLO 2.1) Final exam in ELPT 1325-National Electrical Code I that will include multiple choice and short answer questions requiring students to demonstrate the ability to properly size electrical components, circuits and overcurrent protection according to the National Electrical Code. | 80% of students will score 70% or higher on the final exam in ELPT 1325. | 64% of students earned 70% or higher on their final exam. |
| Students will be able to demonstrate proper techniques related to wiring methods | (PLO 1.1) Final project in ELPT 1329-Residential Wiring requiring students to demonstrate hands-on industry standard wiring techniques and standard OSHA safety measures for one or more residential wiring scenarios | 80% of students will score a 70% or higher on final project in ELPT 1329 | 73% of students earned a 70% on their final exam. |
| Students will be able to apply fundamental knowledge of Electrical Codes to appropriately size and safely install electrical components in hazardous locations. | (PLO 3.1) Final exam in ELPT 2325 - National Electrical Code II will include multiple choice and short answer questions requiring students to demonstrate the application of their knowledge about properly sizing electrical components in hazardous locations to meet requirements of the National Electrical Code. | 80% of students will score a 70% or higher on final exam in ELPT 2325 | 90% of students earned 70% on their final exam. |
| Student will be able to demonstrate proper techniques related to wiring methods | (PLO 1.2) Final project in ELPT 1345-Commercial Wiring requiring students to demonstrate hands-on industry standard wiring techniques and standard OSHA safety measures for one or more commercial wiring scenarios. | 80% of students will score a 70% or higher on final project in ELPT 1345 | 77% of students earned 70% on their final project. |
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**Add additional rows if necessary.**