**Course Assessment Plan**

**Program: Electrical Automation Technology Course Title: Introduce to Automation and Control Circuits**

**Instructor: Matthew Leigh**

**Semester: Fall 2018 Total # Scheduled Sessions:80 Days**

**Action Plan implemented from \_\_\_\_\_\_\_\_\_ Semester: None Prior**

**Step 1: How will the outcome(s) be assessed to determine achievement?**

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| **Course Outcome** | **Methods of Assessment** | |
| **Assessment Process** | **Level of Achievement** |
| **CLO #4:** Program and wire a PLC integrated with a motor control circuit. | **What:** Course final. The final shall complete this course and will integrate both the Manual Motor Controls unit with the Intro to PLCs unit. The students will be given a hands-on final exam to construct a complete automated as well as manual motor control circuit.  **How:** Given a real-world control problem, the students are to design and wire an integrated circuit that consists of both manual motor controls and automated controls within a PLC. The automated portion of the control circuit shall be programmed within a PLC.  **Who:** Matthew Leigh  **When:** Monday, December 17th through Wednesday December 19th, 2018  **Where: Ranken’s Wentzville location, Taylor Building, room T-105** | **Criteria:**  This hands-on test shall be graded based on the grading rubric given to the students at the beginning of the final exam.  **Success Level:**  Students shall exhibit their knowledge on the written test by achieving a grade of 75% or higher.  **Expected Achievement**: 85% student success level  **Students Included:** All students enrolled in the course |

**Step 2: What were the results, what do they mean, and what is the plan to improve, if needed?**

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| **Course Outcome** | **Assessment Results** | |
| **Analysis** | **Plan for Improvement** |
| **CLO # 4:** Program and wire a PLC integrated with a motor control circuit. | **Date of assessment:** State date or if the ONE assessment took multiple days to complete, give date range.  **Total Number of Students:** Total # students assessed  **Number of students Meeting Success Level:** Number students meeting defined success level for this assessment.  **Number of students Not Meeting Success Level:** Number of student not meeting defined success level for this assessment.  **Key Findings:** What did the results indicate? Was there a trend? What were the weak areas? Note exact questions or criteria where trends were found.  **Conclusions:** What is currently in place that could be the cause for weak areas? What instructional method was used that may need to be changed?  **End Result:**  *(Did 85% meet expected achievement as described in Step 1?)*  Achieved  Not Achieved  Inconclusive | **Effect on Student Learning:** Describe the positive or negative effect the previous action plan had on student learning.  **Actions Taken**: In detail, describe the curriculum changes, instructional changes, equipment changes, or assessment changes, put in place (for budget items, note future date of purchase) to improve learning for this outcome.  **Re-assessment Date:** Should be noted as the next course offering, ex Fall 2018. |