**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 Spring 2018 Semester**

**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 #2:** Design, construct, and troubleshoot motor control circuits. | **What:** Course mid-term. The mid-term shall complete our unit on Manual Motor Controls. The test shall consist of both a written exam and a hands-on exam. The hands-on exam shall be used for this outcome assessment.  **How:** The students will then be given a real-world control problem that they shall have to design and construct a control circuit. The student shall receive a grade based on their knowledge and ability to complete this task to industry standards.  **Who:** Matthew Leigh  **When:** Wednesday October 17th, 2018  **Where: Ranken’s Wentzville location, Taylor Building, room T-105** | **Criteria:**  The hands-on portion shall be graded based on a grading rubric provided to the students at the beginning of the mid-term.  **Success Level:**  Students shall exhibit their knowledge in the hands-on portion of the mid-term 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 # 2:** Design, construct, and troubleshoot motor control circuits. | **Date of assessment:** October 19th, 2018  **Total Number of Students:** 11  **Number of students Meeting Success Level:** 11  **Number of students Not Meeting Success Level:** 0  **Key Findings:** Assessment was successful with the class average score on this hands-on being 96.18%.  **Conclusions:** This unit experience some computer related issues. Current classroom computers should be replaced with new models.  **End Result:**  *(Did 85% meet expected achievement as described in Step 1?)*  Achieved  Not Achieved  Inconclusive | **Effect on Student Learning:** This hands-on mid-term had a positive effect on the students’ knowledge retention. Preparation up to this conclusion to the manual motor controls unit allowed the students to all complete this assessment successfully.  **Actions Taken**: I shall continue to conduct weekly hands-on assessments to prepare the students for the mid-term hands-on assessment. The previous accessment stated that six new motors need to be purchased of each of the following types; Single phase reversible motor, fractional three-phase motor and larger three-phase motor with braking system. We did purchase six new single-phase motors, but the three-phase motor still need to be purchased.  **Re-assessment Date:** Summer 2019 |