Assessment: Program Four Column

Acad Program - Industrial Electrician Program (AAS)

Program Learning Outcomes	*Assessment Methods*	*Assessment Results*	*Action Taken (Use of Results)*
Circuit Operation - Interpret voltage, current and resistance characteristics as they relate to circuit operation. **Outcome Status:** Active/Ongoing **Assessment Year:** 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022 **Start Date:** 07/01/2017	**Demonstration -** Student performance determined from the fundamentals of electricity and electronics assessments.	**Reporting Period:** 2019 - 2020 EoY **Result Type:** Criterion Met Data indicates 97% of students who completed the course were able to interpret voltage and other characteristics associated to circuit operation. (06/30/2020) **Analysis:** Acceptable results. Monitoring will continue.	**Action Taken (Use of Results):** Acceptable results. Monitoring will continue. (06/30/2020)
Test Equipment Operation - Use proper electrical test equipment. **Outcome Status:** Active/Ongoing **Assessment Year:** 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022 **Start Date:** 07/01/2017	**Demonstration -** Assessments of student understanding and electrical test equipment usage.	**Reporting Period:** 2019 - 2020 EoY **Result Type:** Criterion Met 91% of students successfully exhibited proper usage of test equipment. (06/30/2020) **Analysis:** Acceptable results. Monitoring will continue.	**Action Taken (Use of Results):** Acceptable results. Monitoring will continue. (06/30/2020)
Interpreting Blueprints - Proper interpretation of electrical drawings. **Outcome Status:** Active/Ongoing **Assessment Year:** 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022 **Start Date:** 07/01/2017	**Exam -** Reading and interpreting blueprint and electrical schematics.	**Reporting Period:** 2019 - 2020 EoY **Result Type:** Criterion Met Data indicates 100% of students who completed the course were able to interpret electrical drawings. (06/30/2020) **Analysis:** Acceptable results. Monitoring will continue.	**Action Taken (Use of Results):** Acceptable results. Monitoring will continue. (06/30/2020)
Electrical Troubleshooting - Troubleshoot conventional and specialized motors and their feedback	**Demonstration -** Student assessment on motor and feedback control system	**Reporting Period:** 2019 - 2020 EoY **Result Type:** Criterion Met 96% of students were successful in troubleshooting motors	**Action Taken (Use of Results):** Acceptable results. Monitoring will continue. (06/30/2020)

Program Learning Outcomes	*Assessment Methods*	*Assessment Results*	*Action Taken (Use of Results)*
systems. **Outcome Status:** Active/Ongoing **Assessment Year:** 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022 **Start Date:** 07/01/2017		and feedback systems. (06/30/2020) **Analysis:** Acceptable results. Monitoring will continue.	
Electrical Sensors - Select, install and troubleshoot industrial electrical sensors and devices. **Outcome Status:** Active/Ongoing **Assessment Year:** 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022 **Start Date:** 07/01/2017	**Demonstration -** Troubleshooting of advanced motor control systems	**Reporting Period:** 2019 - 2020 EoY **Result Type:** Criterion Met 90% of students demonstrated the ability to select, install, and troubleshoot sensors and devices. (06/30/2020) **Analysis:** Acceptable results. Monitoring will continue.	**Action Taken (Use of Results):** Acceptable results. Monitoring will continue. (06/30/2020)
Programmable Logic Controllers - Install, and troubleshoot a PLC and computer communications network. **Outcome Status:** Active/Ongoing **Assessment Year:** 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022 **Start Date:** 07/01/2017	**Presentation -** Programmable Logic Controller programming and troubleshooting lab exercise.	**Reporting Period:** 2019 - 2020 EoY **Result Type:** Criterion Met Data indicates 98% of students who completed the course were able to install and troubleshoot PLCs. (06/30/2020) **Analysis:** Acceptable results. Monitoring will continue.	**Action Taken (Use of Results):** Acceptable results. Monitoring will continue. (06/30/2020)
Diagram Interpretation - Understand residential, commercial, and industrial diagrams, as well as motor control, and instrumentation piping diagrams. **Outcome Status:** Active/Ongoing **Assessment Year:** 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022 **Start Date:** 07/01/2017	**Demonstration -** Assessment of student interpretation and understanding of electrical blueprints	**Reporting Period:** 2019 - 2020 EoY **Result Type:** Criterion Met Data indicates 93% of students who completed the course demonstrated understanding of diagrams. (06/30/2020) **Analysis:** Acceptable results. Monitoring will continue.	**Action Taken (Use of Results):** Acceptable results. Monitoring will continue. (06/30/2020)
Electrical Safety - Demonstrate knowledge of safety procedures, hazards, housekeeping, and appropriate cautions in the electrical industry	**Exam -** Students assessed on understanding and application of electrical safety.	**Reporting Period:** 2019 - 2020 EoY **Result Type:** Criterion Met 92% of students demonstrated quality knowledge of safety standards and practices. (06/30/2020) **Analysis:** Acceptable results. Monitoring will continue.	**Action Taken (Use of Results):** Acceptable results. Monitoring will continue. (06/30/2020)

Program Learning Outcomes	*Assessment Methods*	*Assessment Results*	*Action Taken (Use of Results)*

Outcome Status: Active/Ongoing
Assessment Year: 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022
Start Date: 07/01/2017