

Assessment: Program Four Column



Acad Program - Industrial Electrician Program (AAS)

<i>Program Learning Outcomes</i>	<i>Assessment Methods</i>	<i>Assessment Results</i>	<i>Action Taken (Use of Results)</i>
<p>Circuit Operation - Interpret voltage, current and resistance characteristics as they relate to circuit operation.</p> <p>Outcome Status: Active/Ongoing Assessment Year: 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022, 2022 - 2023 Start Date: 07/01/2017</p>	<p>Demonstration - Student performance determined from the fundamentals of electricity and electronics assessments.</p>	<p>Reporting Period: 2021 - 2022 EoY Result Type: Criterion Met Data indicates 82% of students who completed the course were able to interpret voltage and other characteristics associated to circuit operation. (08/11/2022) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitor closely for 2022-23. (08/11/2022)</p>
<p>Test Equipment Operation - Use proper electrical test equipment.</p> <p>Outcome Status: Active/Ongoing Assessment Year: 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022, 2022 - 2023 Start Date: 07/01/2017</p>	<p>Demonstration - Assessments of student understanding and electrical test equipment usage.</p>	<p>Reporting Period: 2021 - 2022 EoY Result Type: Criterion Met 94% of students successfully exhibited proper usage of test equipment. (08/11/2022) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue. (08/11/2022)</p>
<p>Interpreting Blueprints - Proper interpretation of electrical drawings.</p> <p>Outcome Status: Active/Ongoing Assessment Year: 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022, 2022 - 2023 Start Date: 07/01/2017</p>	<p>Exam - Reading and interpreting blueprint and electrical schematics.</p>	<p>Reporting Period: 2021 - 2022 EoY Result Type: Criterion Met Data indicates 92% of students who completed the course were able to interpret electrical drawings. (08/11/2022) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue. (08/11/2022)</p>
<p>Electrical Troubleshooting - Troubleshoot conventional and specialized motors and their feedback</p>	<p>Demonstration - Student assessment on motor and feedback control system</p>	<p>Reporting Period: 2021 - 2022 EoY Result Type: Criterion Met 91% of students were successful in troubleshooting motor</p>	<p>Action Taken (Use of Results): Monitoring will continue. (08/11/2022)</p>

Program Learning Outcomes	Assessment Methods	Assessment Results	Action Taken (Use of Results)
<p>systems. Outcome Status: Active/Ongoing Assessment Year: 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022, 2022 - 2023 Start Date: 07/01/2017</p>		<p>and feedback systems. (08/11/2022) Analysis: Acceptable results.</p>	
<p>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, 2022 - 2023 Start Date: 07/01/2017</p>	<p>Demonstration - Troubleshooting of advanced motor control systems</p>	<p>Reporting Period: 2021 - 2022 EoY Result Type: Criterion Met 83% of students demonstrated the ability to select, install, and troubleshoot sensors and devices. (08/11/2022) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitor closely for 2022-23 year. (08/11/2022)</p>
<p>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, 2022 - 2023 Start Date: 07/01/2017</p>	<p>Presentation - Programmable Logic Controller programming and troubleshooting lab exercise.</p>	<p>Reporting Period: 2021 - 2022 EoY Result Type: Criterion Met Data indicates 100% of students who completed the course were able to install and troubleshoot PLCs. (08/11/2022) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue. (08/11/2022)</p>
<p>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, 2022 - 2023 Start Date: 07/01/2017</p>	<p>Demonstration - Assessment of student interpretation and understanding of electrical blueprints</p>	<p>Reporting Period: 2021 - 2022 EoY Result Type: Criterion Met Data indicates 100% of students who completed the course demonstrated understanding of diagrams. (08/11/2022) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue. (08/11/2022)</p>
<p>Electrical Safety - Demonstrate knowledge of safety procedures, hazards, housekeeping, and appropriate cautions in the electrical industry</p>	<p>Exam - Students assessed on understanding and application of electrical safety.</p>	<p>Reporting Period: 2021 - 2022 EoY Result Type: Criterion Met 84% of students demonstrated quality knowledge of safety standards and practices. (08/11/2022) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitor closely for 2022-23 year. (08/11/2022)</p>

*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, 2022 - 2023

Start Date: 07/01/2017