

Assessment: Program Four Column

2022-23 School of Industrial Technology



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, 2023 - 2024 Start Date: 07/01/2017</p>	<p>Demonstration - Student performance determined from the fundamentals of electricity and electronics assessments.</p>	<p>Reporting Period: 2022 - 2023 EoY Result Type: Criterion Met Data indicates 86.47% of students who completed the course were able to interpret voltage and other characteristics associated to circuit operation. (06/08/2023) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue for 2023-24. (06/08/2023)</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, 2023 - 2024 Start Date: 07/01/2017</p>	<p>Demonstration - Assessments of student understanding and electrical test equipment usage.</p>	<p>Reporting Period: 2022 - 2023 EoY Result Type: Criterion Not Met Data indicates 71.45% of students who completed the course exhibited proper usage of test equipment. (06/09/2023) Analysis: Under review.</p>	<p>Action Taken (Use of Results): The exams used were revamped this past year to better assess student learning. We will review the delivery methods of the material and reassess for next year. (06/09/2023)</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, 2023 - 2024 Start Date: 07/01/2017</p>	<p>Exam - Reading and interpreting blueprint and electrical schematics.</p>	<p>Reporting Period: 2022 - 2023 EoY Result Type: Criterion Met Data indicates 88.99% of students who completed the course were able to interpret electrical drawings. (06/09/2023) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue. (06/09/2023)</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: 2022 - 2023 EoY Result Type: Criterion Met 92.499% of students were successful in troubleshooting</p>	<p>Action Taken (Use of Results): Monitoring will continue.</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, 2023 - 2024 Start Date: 07/01/2017</p>		<p>motor and feedback systems. (06/09/2023) Analysis: Acceptable results.</p>	<p>(06/09/2023)</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, 2023 - 2024 Start Date: 07/01/2017</p>	<p>Demonstration - Troubleshooting of advanced motor control systems</p>	<p>Reporting Period: 2022 - 2023 EoY Result Type: Criterion Met 87.68% of students demonstrated the ability to select, install, and troubleshoot sensors and devices. (06/09/2023) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue. (06/09/2023)</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, 2023 - 2024 Start Date: 07/01/2017</p>	<p>Presentation - Programmable Logic Controller programming and troubleshooting lab exercise.</p>	<p>Reporting Period: 2022 - 2023 EoY Result Type: Criterion Met Data indicates 81.23% of students who completed the course were able to install and troubleshoot PLCs. (06/09/2023) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue. (06/09/2023)</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, 2023 - 2024 Start Date: 07/01/2017</p>	<p>Demonstration - Assessment of student interpretation and understanding of electrical blueprints</p>	<p>Reporting Period: 2022 - 2023 EoY Result Type: Criterion Met Data indicates 89.73% of students who completed the course demonstrated understanding of diagrams. (06/09/2023) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue. (06/09/2023)</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: 2022 - 2023 EoY Result Type: Criterion Met 88.205% of students demonstrated quality knowledge of safety standards and practices. (06/09/2023) Analysis: Acceptable results.</p>	<p>Action Taken (Use of Results): Monitoring will continue. (06/09/2023)</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, 2023 - 2024

Start Date: 07/01/2017