Assessment: Program Four Column

2022-23 School of Industrial Technology

Acad Program - Industrial Instrumentation (AAS)

Mission: The mission of the Industrial Instrumentation Technology program is to provide classroom instruction and practical laboratory experience leading to the successful completion of the Associate of Applied Science in Industrial Instrumentation Technology, preparing individuals to maintain and repair control systems and components in the industrial manufacturing field.

Program Learning Outcomes	*Assessment Methods*	*Assessment Results*	*Action Taken (Use of Results)*
1. Instrument Drawings - Read and interpret instrument drawings while understanding control logic and fundamental electrical circuit theory. **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	**Demonstration -** Introduction to PLCs initial lab exercises recorded from Electricity/Electronics.	**Reporting Period:** 2022 - 2023 EoY **Result Type:** Criterion Met 91.139% of students who completed the course were able to read/interpret drawings and knowledge of control logic and circuit theory. (06/09/2023) **Analysis:** Acceptable results.	**Action Taken (Use of Results):** Monitoring will continue. (06/09/2023)
2. Troubleshooting and Calibration Skills - Perform basic troubleshooting and calibration skills necessary for entry level instrumentation positions along with demonstrating understanding of safety hazards and procedures associated with industrial process control. **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	**Demonstration -** Safety tests and PLC Troubleshooting Calibration Labs (Intro & Advanced).	**Reporting Period:** 2022 - 2023 EoY **Result Type:** Criterion Met Data indicates 85.191% of the students who completed the course were successful in troubleshooting and calibrating while meeting safety standards. (06/09/2023) **Analysis:** Acceptable results.	**Action Taken (Use of Results):** Monitoring will continue. (06/09/2023)
3. Identify Industrial Equipment - Identify typical industrial equipment	**Demonstration -** Pressure and Level Measurement average as well as	**Reporting Period:** 2022 - 2023 EoY **Result Type:** Criterion Met	**Action Taken (Use of Results):** Monitoring will continue.

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and interface sensors with automatic controls. **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	Industrial Control Systems Loop Check Lab averages.	86.969% of students who successfully completed the courses were able to identify the specific equipment. (06/09/2023) **Analysis:** Acceptable results.	(06/09/2023)
4. Professionalism - Demonstrate punctuality and responsibility suitable to work place employment while communicating technical issues to peers both orally and in writing. **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	**Demonstration -** Introduction to PLCs Communication/ Speech component average. Average of students prepared for labs with proper PPE & tools (ICS and Temperature & Analytical labs).	**Reporting Period:** 2022 - 2023 EoY **Result Type:** Criterion Met 95.303% of students were successful in their demonstration of work ethic and communication to peers. (06/09/2023) **Analysis:** Acceptable results.	**Action Taken (Use of Results):** Monitoring will continue. (06/09/2023)