

## Automated Industrial Technology AAS

Program Learning Outcomes (PLOs)		Measurable Student Learning Outcomes (MSLOs)- PLO Alignment														
		AIT100	AIT105	AIT110	AIT115	AIT120	AIT125	AIT205	AIT210	AIT215	AIT225	AIT270	AIT275	MET289	WLD221	
1. (Application Level) Install, test, and troubleshoot Programmable Logic Controllers (PLCs). (CSLO 2,3)					✓	✓		✓	✓			✓				
2. (Analysis Level) Analyze AC/DC circuits, and analog and digital systems. (CSLO 2,3)					✓	✓	✓	✓	✓			✓	✓			✓
3. (Application Level) Calibrate, adjust and test process control systems. (CSLO 2,3)					✓	✓				✓	✓	✓	✓	✓	✓	
4. (Application Level) Install, test, operate and troubleshoot motor drives in an electrical control system. (CSLO 2,3)	✓				✓	✓		✓							✓	✓
5. (Analysis Level) Perform, monitor and interpret machine operation. (CSLO 2,3)			✓	✓		✓						✓			✓	✓
6. (Analysis Level) Interpret electrical and electronic control and power schematics and measure current, voltage and resistance. (CSLO 2,3)	✓	✓	✓		✓	✓	✓			✓				✓	✓	
7. (Analysis Level) Analyze and perform preventive and predictive maintenance on robotic and other automated industrial equipment. (CSLO 2,3,4)			✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	
8. (Application Level) Utilize computer information systems, microcomputer applications, and programming techniques. (CSLO 2,3,4)										✓	✓		✓	✓	✓	
9. (Application Level) Apply electronic and mechanical fabrication techniques. (CSLO 2,3)	✓	✓	✓		✓	✓		✓					✓		✓	✓
10. (Comprehension Level) Describe and adhere to safety, health and environmental rules and regulations. (CSLO 2,3,4)	✓	✓												✓		✓
11. (Application Level) Practice professional standards of the industry and ethical behavior. (CSLO 2,3)																✓
12. (Comprehension Level) Communicate effectively, both orally and in writing, in varied settings in a culturally responsive manner. (CSLO 2,3,4)																
13. (Synthesis Level) Collaborate with diverse individuals and entities to achieve common goals. (CSLO 2,3,4)										✓						

## Automated Industrial Technology I Certificate

Program Learning Outcomes (PLOs)	Measurable Student Learning Outcomes (MSLOs)- PLO Alignment					
	AIT100	AIT105	AIT110	AIT115	AIT120	AIT125
1. (Applying Level) Collaborate with diverse individuals and entities to achieve common goals. (CSLO 2,3,4)						
2. (Analyzing Level) Analyze AC/DC circuits, and analog and digital systems. (CSLO 2,3,4)				✓	✓	✓
3. (Applying Level) Perform, monitor and interpret machine operation. (CSLO 2,3)	✓	✓	✓	✓	✓	✓
4. (Applying Level) Interpret electrical and electronic control and power schematics and measure current, voltage and resistance. (CSLO 2,3)	✓		✓	✓	✓	✓
5. (Analyzing Level) Analyze and perform preventive and predictive maintenance on robotic and other automated industrial equipment. (CSLO 2,3,4)	✓	✓	✓	✓	✓	✓
6. (Applying Level) Utilize computer information systems, microcomputer applications, and programming techniques. (CSLO 2,3,4)						
7. (Applying Level) Apply electronic and mechanical fabrication techniques. (CSLO 2,3,4)		✓	✓	✓	✓	
8. (Understanding Level) Describe and adhere to safety, health and environmental rules and regulations. (CSLO 2,3)	✓					
9. (Applying Level) Practice professional standards of the industry and ethical behavior. (CSLO 2,3,4)						
10. (Remembering Level) Communicate effectively, both orally and in writing, in varied settings in a culturally responsive manner. (CSLO 2,3,4)		✓				

## Automated Industrial Technology II Certificate

Program Learning Outcomes (PLOs)	Measurable Student Learning Outcomes (MSLOs)- PLO Alignment				
	AIT205	AIT210	AIT215	AIT225	AIT270
1. (Applying Level) Collaborate with diverse individuals and entities to achieve common goals. (CSLO 2,3)					
2. (Applying Level) Install, test and troubleshoot Programmable Logic Controllers (PLCs). (CSLO 2,3,4)		✓			
3. (Analyzing Level) Analyze AC/DC circuits, and analog and digital systems. (CSLO 2,3)	✓		✓	✓	
4. (Applying Level) Install, test, operate and troubleshoot motor drives in an electrical control system. (CSLO 2,3,4)	✓			✓	
5. (Understanding Level) Interpret electrical and electronic control and power schematics and measure current, voltage and resistance. (CSLO 2,3,4)			✓	✓	
6. (Applying Level) Analyze and perform preventive and predictive maintenance on robotic and other automated industrial equipment. (CSLO 2,3,4)					✓
7. (Applying Level) Utilize computer information systems, microcomputer applications, and programming techniques. (CSLO 2,3,4)					✓
8. (Applying Level) Apply electronic and mechanical fabrication techniques. (CSLO 2,3)	✓		✓		✓
9. (Analyzing Level) Describe and adhere to safety, health and environmental rules and regulations. (CSLO 2,3)					✓
10. (Applying Level) Practice professional standards of the industry and ethical behavior. (CSLO 2,3,4)					
11. (Understanding Level) Communicate effectively, both orally and in writing, in varied settings in a culturally responsive manner. (CSLO 2,3)					