Industrial Automation

Introduction to Industrial Automation (Certificate of Achievement)

The Introduction to Industrial Automation Certificate program is modeled after local industry competency standards and includes study in the following areas: electrical theory and components, soldering, wiring diagrams, safety programmable logic controllers, and Allen Bradly SLC 500 and CLX 5000 computer integrated manufacturing. This program will provide the necessary knowledge and skills to increase job performance for careers in electronics technology. Students will be prepared for entry level positions in petroleum/energy, manufacturing automation, process control, logistics and distribution, material processing, and industrial maintenance.

Program Student Learning Outcomes

Upon successful completion of the program, students will be able to:

- demonstrate proficiency of safety principles required for industrial employment.
- demonstrate proficiency in automation programming/troubleshooting related to programmable logic controllers.
- demonstrate problem solving skills used in industrial manufacturing environments.
- demonstrate an understanding of industrial manufacturing and electronics.
- demonstrate an understanding of the core hardware and theory related to programmable automation controllers.

Course #	Title		Units
Required Core Courses			
ELET-001	Basic Electronics		3
ELET-002	Electronic Circuits		4
ELET-003	Programing Logic Controllers		3
ELET-006	Electrical Motors and Controls		4
ITEC-008	. Mechanical Systems		3
ITEC-015X	. Occupational Work Experience		1
	Total		18
This is a recommended sequence of courses for timely completion of this program. Entry in			
to transfer level English and math required to follow this recommended sequence. Please see			
your counselor to formalize your personalized educational plan or for alternative planning.			
	SEMESTER 1	SEMESTER 2	
	3	ELET-002	
	3	ELET-006.	
ITEC-008	3	ITEC-015X	1
	9		9