Automation and Electrical Control Technology, Certificate of Proficiency

The Certificate of Proficiency in Automation and Electrical Control Technology provides training for students seeking to develop their skills and knowledge to troubleshoot, wire, repair, adapt, maintain, and control large automated electrical systems found in Industrial and Manufacturing Industries worldwide. This certificate is designed to provide high school students an opportunity to obtain a certificate of proficiency in a Career and Technical Education field while still enrolled in high school, and stack into certificate and associate degrees at UVU.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		**14**
Discipline Core Requirements		**14 Credits**
ENGL 1010	Introduction to Academic Writing CC	3
AET 1050	Electrical Math I	3
AET 1130	Introduction to Automation	2
AET 1135	Introduction to Automation Lab	1
AET 1140	Applied AC Theory	1
AET 1145	Applied AC Lab	2
AET 1150	Industrial Logic	1
AET 1155	Industrial Logic Lab	1

Graduation Requirements

1. Completion of a minimum of 17 credits
2. Overall grade point average of 2.0 (C) or above, with no core course below 'C-'
3. Residency hours: minimum of 4 credit hours through course attendance at UVU
4. Completion of GE and specified departmental requirements.

Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track (http://www.uvu.edu/wolverinetrack/).

First Year		
Semester 1		**Credit Hours**
ENGL 1010	Introduction to Academic Writing CC	3
AET 1050	Electrical Math I	3
AET 1130	Introduction to Automation	2
AET 1135	Introduction to Automation Lab	1
	Credit Hours	**9**
Semester 2		
AET 1140	Applied AC Theory (Block 1)	1
AET 1145	Applied AC Lab (Block 1)	2
AET 1150	Industrial Logic (Block 2)	1
AET 1155	Industrial Logic Lab (Block 2)	1
	Credit Hours	**5**
	Total Credit Hours	**14**

Program Learning Outcomes

1. Apply electrical theory to safely wire, troubleshoot, analyze, repair, and build electrical/electronic systems.
2. Utilize appropriate test equipment and hand tools to troubleshoot, analyze, and repair electrical/electronic systems.
3. Describe the operation of electrical components, transformers, digital and relay logic in an electrical system.
4. Apply technical knowledge and skills to safely analyze, assemble, operate, troubleshoot digital systems.