



Take Your Training to the Next Level

PROGRAMMABLE LOGIC CONTROL SPECIALIZATION

The mainstay of today's industrial control systems is the programmable logic controller (PLC), a small computer-like device that monitors and controls most of the equipment used in manufacturing, processing and factory settings. Maintenance and operation of these devices, which are used in every aspect of industry to expand and enhance production, is the job of the PLC specialist, a highly skilled member of any industrial team.

Through the Programmable Logic Control Specialization Program, offered in partnership by Alvin Community College and Texas State Technical College, students can take the knowledge gained in the ACC Industrial Electrical Technician Program, or from real-world experience, to the next level of professional development.

This two-month, hands-on program is designed to assist students to comprehend the fundamentals of PLCs and their systems. Students will work through various exercises designed to provide real-world experience of control applications. General troubleshooting procedures and techniques are stressed, and students are instructed in how to analyze PLC problems systematically using hardware and software aids.



To learn more about the
**Industrial Programmable Logic
Controls Program**

Visit <http://www.alvincollege.edu/fasttrack>
call **281.412.9482** or **281.756.3787**



Students will learn:

- OSHA Safety Guidelines – Before beginning their hands-on technical training, students will undergo a two-week course to learn basic safety skills mandated by the Occupational Safety and Health Administration. *Note: OSHA training must only be completed by students who have not participated in the Industrial Electrical Technician Program.*
- Programmable Logic Controller – In this class, students will learn to determine the necessary hardware to configure PLC systems and develop control logic, the computer generated program that controls machinery and processes. In addition, students will have the opportunity to develop troubleshooting skills needed to assure safe, continuous and efficient production in today's manufacturing and processing facilities.
- Industrial Automation – Students will combine skills acquired in the PLC class and their knowledge of electric motor controls to develop solutions to industrial applications. The student will learn the characteristics of many of the field devices used in industrial applications and will be given real-world control solution scenarios to resolve.

Before entering the program, students will be evaluated for a basic understanding of industrial controls and language proficiency. If needed, students will have the opportunity to take part in English as a second language (ESL) classes through the Adult Reading Center of Pearland to help prepare them for the program.