



# International Automation Technologies

For Industrial Automation & Training

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## Training Course on Programmable Logic Controllers (PLCs)

- Designing, organizing, and programming the PLC ladder logic project.
- Describe functions and uses of PLC.
- Develop PLC program for any industrial process
- Modify existing PLC program for more logical use.
- Select a proper PLC for a certain industrial plant.
- Design/redesign the plant's automation system using PLC.
- Install PLC system in a process plant.
- Maintain and troubleshoot the PLC system
- Main Control Programs, Selectable Timed Interrupts, Processor Input Interrupts, Subroutines, Jumps.
- Passing input and return parameters to and from subroutine ladder file
- Using indirect and indexed addressing
- All realistic hands-on projects are designed around carefully chosen topics

The course material is presented using a challenging and enjoyable "learn-by-doing" approach

### PLC, VFI & HMI programming and troubleshooting

**Course Duration:** 60 hour (4 hour per lecture, 12 hrs per weeks)

**Course Fee:** 10,000 BDT (Ten thousand taka only) .

**Course content: Programming logic controllers (PLCs):** Introduction to Automatic Control System. Control Action, Concept of PLC, Profibus, CANbus, DCS, SCADA control system. Hardware of PLC, Programming & troubleshooting of Siemens-Logo, S7-200, S7-300 and S7-1200. Omron, Mitsubishi, Allan Bradley, LG & Delta PLC Programming.

**PLC Software:** Simatic Manager, RSLogix 5000, RSLogix 500, Simatic TIA, Omron CX Programmer

**Variable Frequency inverter (VFI):** Programming & Troubleshooting of Yaskawa, Danfoss, lenze, Delta.

**Human Machine Interface (HMI):** Programming & Troubleshooting of Siemens, LG, Omron & Proface.

**Contact Cell Phone:** 01711233784

**Contact Email:** [ziaulecl@gmail.com](mailto:ziaulecl@gmail.com), [info@iatecl.com](mailto:info@iatecl.com) , [ziaul@iatecl.com](mailto:ziaul@iatecl.com)

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**Visit:** [plc.iatecl.com](http://plc.iatecl.com)

**Address:**  
House#4, Road#16, Sector#3  
Uttara, Dhaka-1230  
Bangladesh

**Email:** [ziaulecl@gmail.com](mailto:ziaulecl@gmail.com)  
**Email:** [info@iatecl.com](mailto:info@iatecl.com)  
**Cellphone:** 01711233784  
**Website:** [www.iatecl.com](http://www.iatecl.com)