

Power And Energy Training Academy (PETA)

PETA proudly announces the resumption of its training program on “PLC and Industrial Automation”

Are you eager to develop yourself as a professional engineer, capable of addressing the challenges in the industrial automation sector?

Are you looking for a specialized program to strengthen your expertise in industrial automation?

Then it's high time to enroll on this course and enrich your knowledge through PETA.

Program Title: Professional Certificate Course on “**Mastering PLC & Industrial Automation with SCADA and HMI**”.

Last Date of Enrollment: **29.08.2026**. (Seat Limited)

Orientation & Inaugural Ceremony: **29.08.2026**

Commencement of Classes: **04.09.2026**.

Who Should Enroll?

- Undergraduate and graduate students of Electrical and Electronic Engineering (EEE)/ Mechanical Engineering/ Industrial Process Engineering (BSc/MSc).
- Trainee engineers aspiring to build a career in the industrial automation sector.

Opportunities after completion of the training program

- Job placement support for outstanding performers.
- Hands-on training under the guidance of top-notch industry experts.
- Learning from distinguished professionals working in leading automation sectors.
- Practical exposure to industry-grade technologies.
- State-of-the-art laboratory sessions.
- Opportunity to enhance knowledge on special automation projects, like conveyor automation, motor control, and HMI integration.
- Exposure to Industry 4.0, IoT, and Smart Factories required for modern industrial needs.
- Hands-on experience with Siemens PLCs, HMI, VFD, and SCADA systems.
- Familiarization with multiple PLC brands.
- Develop communication network protocol, PLC and SCADA skills, essential for modern plants.

- Career pathways in manufacturing, utilities, power & energy plants, and process industries.

Key Learning Outcomes

- Core principles, benefits, applications, and Industry 4.0 concepts in industrial automation.
- Fundamentals of industrial automation: efficiency, safety, precision, and sustainability; In-depth knowledge of sensors, actuators, relays, contactors, valves, and process control instruments.
- Advance knowledge on PLCs: Architecture, Programming, and Hardware configuration.
- Develop skills in designing and programming automation systems using Siemens TIA Portal.
- Develop knowledge on the design and implementation of Human Machine Interfaces (HMI) using WinCC.
- To gather knowledge on digital and analog I/O interface and their real-world applications.
- How to integrate timers, counters, and comparators in PLC-based automation solutions.
- Practical use of sensors, relays, Magnetic Contactors, Panel wiring and measuring instruments.
- Acquire knowledge in HMI screen design for real-time monitoring and control.
- Integration, operation and commissioning of Variable Frequency Drives (VFDs) for motor control.
- Analog signal processing, scaling, and troubleshooting techniques.
- Understanding Industrial communication protocols: Profinet, Modbus, Ethernet/IP, Profibus.
- Insights into industrial networking systems and SCADA integration.
- Real-world project execution (e.g., conveyor automation, motor control with HMI & VFD) along with troubleshooting practice.
- Demonstrate teamwork and problem-solving in group projects and assessments.

Course Information

- **Duration:** ~40 Hours (4 Months).
- **Class Schedule:** Friday, 9:00 AM – 12:00 PM.

- **Venue:** United International University (UIU), United City, Madani Avenue, Badda, Dhaka-1212.

Course Fee & Payment Policy

For UIU Students and Graduates

- BDT 12,500 (after 30% discount from previous launch)
- Two installment payment system (6000 + 6000)
- Total course fee plus admission fee (BDT 500) to be paid at the time of admission.

For Non-UIU Students, Graduates and Engineers from Industries

- BDT 12,500 (after 30% discount from previous launch)
- Two installment payment system (6000 + 6000)
- Total course fee plus admission fee (BDT 500) to be paid at the time of admission.

*Students from **KUET, RUET, CUET, AUST, NSU, IUB, AIUB, EWU, DIU, IUBAT, UITS, Bangladesh Marine Academy (BMA), Chittagong, Bangladesh Institute of Marine Technology (BIMT) Narayanganj**, as well as professional engineers from various power plants, have previously participated in PETA training programs.*

Admission Process

To complete admission, please bring:

- Copy of your NID
- Recent academic certificates
- One passport-sized photograph
- Course fee through online payment gateway
- All admission processes will be handled by the UIU admission office.

Office Hours: Saturday to Wednesday, 9:00 AM – 2:00 PM

Contact Information

 **Coordinator Name: Md. Mostaqul Islam**

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