

5 Weeks Certificate Course on Industrial Control Systems with Extensive Simulation Package

ABILITY TO REMOTELY MONITOR, UNDERSTAND THE ENVIRONMENT

ABOUT THE PROGRAM

Industrial control system (ICS) is a general term used to describe the integration of hardware and software with network connectivity in order to support critical infrastructure. ICS technologies include, but are not limited to, supervisory control and data acquisition (SCADA) and distributed control systems (DCS), industrial automation and control systems (IACS), programmable logic controllers (PLCs), programmable automation controllers (PACs), remote terminal units (RTUs), control servers, intelligent electronic devices (IEDs) and sensors.



KEY TAKEAWAYS

- 1.0 CPD for Engineer
- Increased Health and Safety
- Minimization of threat or exposure
- Protection of Assets

LEARNING METHODOLOGIES

- Lectures/ Presentations
- Handouts
- Q/A Sessions
- Real Life Examples from Projects
- Problem Solving

WHO SHOULD ATTEND

- Professional Engineers
- Junior Engineers
- Mid Level
- Non-Engineers (Other Professionals)
- Junior Level
- Mid-Level
- Senior Level
- Corporate Sector
- Any Graduates

MEET YOUR EXPERT FACILITATOR

Engr. Dr. Muhammad Aamir & Team



LEARNING OBJECTIVES

The course is aimed to cover in-depth concepts and implementation techniques of Industrial Automation and Power Electronics. It provides the power electronics, Industrial Drives and understanding of PLC hardware and programming techniques. Furthermore, it provides the basic understanding of Industrial Control Systems, SCADA and DCS systems used in modern industries.

BENEFITS:

- Upon completing the course the participants will have the detailed knowledge of PLC hardware, various PLC programming languages such as Ladder Logic, STL, and FBD etc.
- Power systems in industries, industrial buses, control of AC motors, DC motor and Industrial application of Transducers are also covered.
- The participant will also gain in-depth knowledge related to Industrial Buses & Protocols. Hydraulics & Pneumatics are also covered in details.

PROGRAM CONTENT

- Industrial Background, Basics of control components, Graphical symbols
- Programmable Logic Controllers
- Industrial Buses & Protocols
- Supervisory Control & Data Acquisition (SCADA)
- Hydraulic and Pneumatic systems
- Industrial Motor Drives
- HMI Software and Display Panels
- Industrial Transducers

Note: Extensive simulation packages will be used to enhance understanding.

Methodology:

- Participants will develop PLC Programs and understand the powerful features of the S7-300 and their application
- Providing skills in state of the art technology
- The course covers introducing PLC Technology and PLC programming Skills
- Main focus on types of Industrial Automation using PLC Technology
- Simulator Win-PLC Unlimited Version
- EasyVeep Programming Module Software
- Step-7 Software for S7-300

**Starting
from
30 JANUARY
2018**

**Tue & Wed
Time: 6:00pm-9:00pm**

INVESTMENT

PKR 10,000 per Participant

*Investment Includes: Course ware,
Certificate, Group Photo, Lunch, Tea*

SPECIAL FEATURES

- lectures, Demonstration, Hand-on Design, Model Testing, Experience Sharing and Discussions-All under one roof.
- Discussions and Q/A sessions for maximum participation.

**Course is valid For ONE CPD Credit
Point as Per PEC BY-LAWS**

For Registration and Details, Please Contact:

Prof. Rizwan U. Farooqui, DG Academy | Dr. Bilal Zahid, Director CCEE

Tel: 9926 1261 Ext:2397, 2297 Fax: 9926 1255

Email: ccee@neduet.edu.pk URL: www.neduet.edu.pk/ccee