EE344 - PLC Based Automation (Sensors, Actuators, Drives, PLC Programming and Engineering)  
(21 - 25 February 2016, Dubai)
Automatic Process Control is being used in almost all the industry verticals today. Programmable Logic Controllers are launched way back in 1970s and today PLCs are being used in all the industries. Industrial Automation using PLC is being extensively used in manufacturing/ production, packing, raw material processing etc. for monitoring, regulatory and sequential control, safety interlocks, motion control, alarms and sequence of events recording, and various other tasks. These are operated either in standalone mode and or they are interfaced with SCADA / DCS for enhanced functionality. The applications of PLCs are ever increasing with emphasis on automation for the improvement of productivity, quality and safety.

This is an introductory course, which aims to build a good understanding about the basics of automatic process control. It covers introduction of sensors/transducers and SMART instrumentation used for measurement of process parameters, the control loop components and focuses on providing inputs related to process control. The course aims to build a good understanding about the basics of industrial automation using PLC and SCADA and it focuses on providing the practical aspects of PLC commissioning and troubleshooting. A brief introduction to hierarchical structure of control systems and PLC communications would help the participants to enhance their exposure related to control pyramid and interface to office automation systems.

Upon completion of the training, participants will learn:

- Have knowledge about basics of instrumentation including sensors and transducers, and control loop components.
- Understand SMART instrumentation fundamentals.
- Understand PLC fundamentals and programming languages as per IEC 61131.
- Work with PLC programming using IEC languages.
- Develop skills on PLC instructions and operation vis-à-vis applications.
- Have knowledge on PLC Project Engineering, Design and Selection.
- Understand PLC communications.
- Become expert on PLC installation and commissioning.
- Master the art of PLC maintenance and troubleshooting.
- Have brief introduction to HMI and SCADA.
- Work confidently in the field of Industrial Automation.
**Terms & Conditions**

- TÜV Middle East Certificate will be issued to all attendees.
- Course Fee mentioned is per delegate.
- Avail an attractive 10% discount on course fee if you register 30 days before course start date.
- Courses will be conducted during the designated dates at a 4 star or 5 star hotel in the designated city.
- Payments to be made in advance. Exact venue of the training will be notified two weeks prior to course start date.
- This rate includes course notes, buffet lunch, coffee/tea on arrival, morning and afternoon of each day.
- Accommodation is not included in course fees. However, any accommodation required can be arranged by TÜV Middle East at time of booking.

For further details and up to date terms and conditions, visit www.tuvakademie.net/tac1.pdf

**About the Instructor**

Mr. Jayant Paranjape

The instructor for this course Mr. Jayant Paranjape has done is graduation in Power Electronics from the Nagpur University in 1986.

During carrier span of over 23 years, Mr. Paranjape was in employment with corporate companies like Bajaj Auto Ltd; VIP Industries Ltd; KSB Pumps Ltd. and shouldered responsibilities ranging from Plant Engineering, maintenance to Projects, getting hardcore exposure and hands on experience in wide range of technologies in control & automation. As an entrepreneur he worked as director on board of Chemtech Automation Pvt.Ltd, Nagpur which was in the activity of System Integration for Industrial automation & control as channel partners and system integrators for GE-Fanuc systems & Eurotherm Del (I) Ltd.

Mr. Paranjape’s expertise is in Project management from concept to commissioning in PLC based control & automation systems, SCADA systems, VFD systems, Servo systems, Electro pneumatic & hydraulic control systems for Industrial machinery and process control. His current involvement involves Supply of Industrial Automation / Control Systems, Sourcing and Supply of Field Instrumentation products, Design and Engineering of Industrial Automation / Control Systems, - Site Services of Software Implementation, System Commissioning and On-and Off-Site Training of User’s personnel.

His achievements include the setting up of a technically successful manufacturing facility of KSB’s UMT100 product, and a GE-Fanuc, India Award for Best Performance in 2003.
Registration

Please visit www.tuvakademie.net for details on courses we offer and more updated information. You can also register online.

For applications by mail / fax, please fill the form below and send to address below:

TÜV Middle East
P. O. Box 46030
Abu Dhabi, United Arab Emirates
Fax Number: +971 2 4411149

EE344 - PLC Based Automation (Sensors, Actuators, Drives, PLC Programming and Engineering)

Date               Location

Yes, register me for the training.

Company Information

Company Name

Address Line 1

Address Line 2

City               Country

Telephone              Fax

Industry               Number of employees

Participant Information

Name

Job Title

Email

I agree that TÜV Middle East can send me periodic emails about news and latest course offerings to my email.

I / we acknowledge to the terms and conditions of the organizer

Location & Date               Signature

TÜV Middle East
P. O. Box 46030
Abu Dhabi, United Arab Emirates
Tel: +971 2 4411148
Fax: +971 2 4411149
me-akademie@tuv-nord.com
www.tuvakademie.net | www.tuv-nord.com
TÜV Middle East • All rights reserved