



WOHLSTAND
ENTERPIRSES



**One Stop Solution
For
Automation & Embedded Systems
Training - Projects
100% Placement**

Thane & Mumbai

WOHLSTAND EDUCATION conducts various training programs specially tailored for Professionals, Corporate Companies and Colleges. WOHLSTAND EDUCATION provides a well-disposed and stimulating study environment addressing the intellectual, professional and leader development of students. Our training programs provide the best practice in the latest technologies, trends and challenges in the immensely competitive areas of automation and embedded technologies, Courses Automation Training, Automation Institute, Automation Courses, Automation Education

CERTIFIED TRAINING PROGRAMS

Automation System Engineer – Duration : 240 Hrs

The training program is broadly divided into seven sessions. Each session is taken by experts with industry experience. As the world of automation is expanding day by day, Engineers can't survive without proper training from basic to advanced level. We have developed our syllabus to become our trained engineers an industry ready professional. Thus we have developed our training program to equip participants develop cost effective design with industrial standards.

SEVEN MAJOR SESSIONS IN WHICH TRAINING IMPARTED ARE:

- Electrical drives and controls.
- Field Instrumentation and Pneumatics
- Programmable Logic Controllers (PLC). – Allen-Bradley, Siemens, ABB, GE Fanuc and Delta PLCs
- Supervisory Control And Data Acquisition (SCADA).
- Distributed Control System (DCS)
- Human Machine Interface (HMI)
- Control panel designing. Major sessions in which training imparted are:

1. Electrical drives and controls

- Basics Of Relays, Contactor, MCB, MCCB, ELCB, ACB, SDF Etc
- Working Details Of Different Types Of Electric Motors.
- Designing Of Control Circuits Using Contactors, Relays, Timers Etc
- DOL, Star Delta Starter Designing For 3 Phase Motors With Specification.
- Motor Drives- AC Drives And DC Drives.
- Programming And Installation Of VFDs.
- Discrete And Continuous Speed Control Using VFDs.
- Safety And Management Concepts Of Designing A Project.

3. Programmable Logic Controllers (PLC)

- Architecture Of PLC- Different Modules, Power Supply Unit Etc
- Need Of PLC In Designing.
- Different Types Of Sensors- Sinking, Sourcing, NPN, PNP.
- Monitoring The Process Through Sensors- Connection Details.
- Analog Addressing, Continuous Process Monitoring And Control.
- Different Types Of Controllers- ON/OFF, Proportional, Derivative, Integral And PID Control.
- PLC Programming Of Branded PLCs.
- NO/ NC Concept.
- Data File Handling- Forcing I/O.
- Wiring And Fault Correction.
- Programming Practices.

5. Distributed Control System (DCS)

- Architecture Of DCS
- Siemens/ Yokogawa Centum VP
- Comparison Of PLC With DCS
- Programming Languages For DCS
- Different Types Of Cards And Their Functions

2. Field Instrumentation and Pneumatic

- Different Types Of Sensors- Analog And Discrete
- Technical Terms Used In Instrumentation
- Calibration And Testing Of Sensors- Thermo Couples, RTD, Pressure Gauge, Level Sensors, Proximity Switches, Limit Switches Etc
- Final Control Elements- Solenoid Valve, Control Valve, Motor Actuators, Solenoids, Bellows, Manual Valves Etc
- Wiring And Commissioning Of Reactor Plant With PLC And SCADA Control

4. Supervisory Control And Data Acquisition (SCADA).

- SCADA Packages
- Role Of SCADA In Industrial Automation
- SCADA System Configuration, RTU, Communication Protocols.
- Script Programming.
- Real Time And Historical Trend.
- Configuring Alarms.
- Real Time Project Development With PLC Interfacing.
- Communication With Other Software.
- Recipe Management.
- Accessing Different Security Levels.
- Report Generation Of Current Plant.

6. Human Machine Interface

- Different Types Of Operator Interfaces, Textual, Graphical
- Wiring Practice Of HMI
- Data Handling With HMI
- Configuration And Interfacing To PLC And PC
- Communication Standards- DF1, Ethernet, DH45, RS232, RS485, Profibus

7. Control Panel Designing

- Different Types Of Panels.
- Basic Components To Be Installed In A Panel.
- Wiring Details Of Panel.
- Specification And Physical Dimension Of Components.
- Earthing And Cabling Of Panels- Standard Procedures.
- P&I Diagram Preparation.





Embedded Product Development

Designed developed and conducted by IIT Experts.

Designed as per industry requirements.

Complete Hands-on Course.

Conducted for the last 20 years

Learn through Projects

100% placements

Microcontroller Architectures

8051
PIC
ARM

Firmware Development

Assembly
Embedded C
Python

Hardware Development

Schematic Design
Component selection
Circuit testing

Interfaces

LED, Seven Segment Display
LCD, Key-Pad
RS-232, RS-485
PLCC

DC motors
Stepper motors
Servo motors
Relays, Solenoid
Actuators

Sensors

Analog input stage
Signal conditioning
Temperature, Flow, Humidity, Light, IR, Ultrasonic

I2C- SPI Bus

Architecture
ADC, DAC
EEPROM
RTC
Port Expander

IoT

Network selection
Power implications
GSM-GPRS
Node MCU
Wi-Fi, Bluetooth
RF, LoRa

Raspberry Pi

System Programming
Applications
Python and C
Automation projects

Measurement systems and power supply design



Turnkey EPC Projects



Electrical



Control System



H V A C

Wohlstand Training



Electrical



Instrumentation



Mechanical



Control Systems

Advanced Training Kits



Electrical Kit's



Mechanical Kits



PLC, DCS &
Drives Kits



Skill Training
Lab

Introduction

- Well established company - Started in 2017 by technocrat promoters with engineering background and industrial work experience. Wohlstand provides turnkey automation solutions and training services to over 50+ manufacturing firms across the globe.
- Objective – To provide state-of-the-art industrial automation solutions for the manufacturing industry and to provide advanced training to working professionals engineers /ITI/ Technicians
- One stop shop for Industrial Automation / Mechanical training/ Embedded Systems/ Electrical – Widest range of product offering in technical training
- Significant investment on quality systems, processes and training methodologies - An ISO 9001-2008 Certified,

Technical Training

Dedicated High End Platforms for training

PLC systems

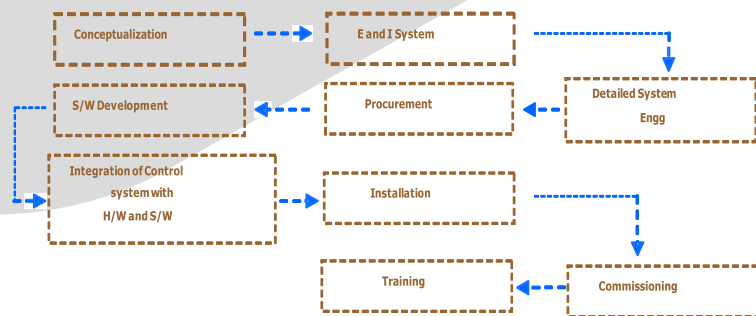
- Siemens (S7 200 / S7300 / S7 400)
- Allen Bradley (Micro Logix / SLC / CompactLogix / ControlLogix)

SCADA systems

- Wonderware (Intouch)
- Intellution (i-Fix)
- Siemens (Win CC)
- kwel (RS View)
- Schneider (Vijeo Citect)
- GE Fanuc (Cimplicity)

Turnkey Solutions Division :

End-to-end solutions company - Conceptualization to commissioning



- Emphasis on professional approach
- Industry specific training solutions suitable to client's needs, course modules are changed to suit industry needs
- Continuous faculty training
- Reusable software and comprehensive documentation
- Most technical trainers have experience of working on live projects**

Wohlstand Corporate Training Offerings

Training for Engineers, ITI, Technicians, Operators, Welders and Riggers

- Corporate training
For Manufacturing and Process companies - Oil & Gas, (working professionals) Ports, Utilities (power/water), Metals, Cement, Petrochemicals, Infrastructure and resources companies
- Streams - Instrumentation & Automation systems (Control System), Embedded Systems, Electrical Systems, Mechanical Systems, Integrated Industrial Training

** Both, In-plant training (at client's facility/site)

** Public Training (In Hotels)



100%
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