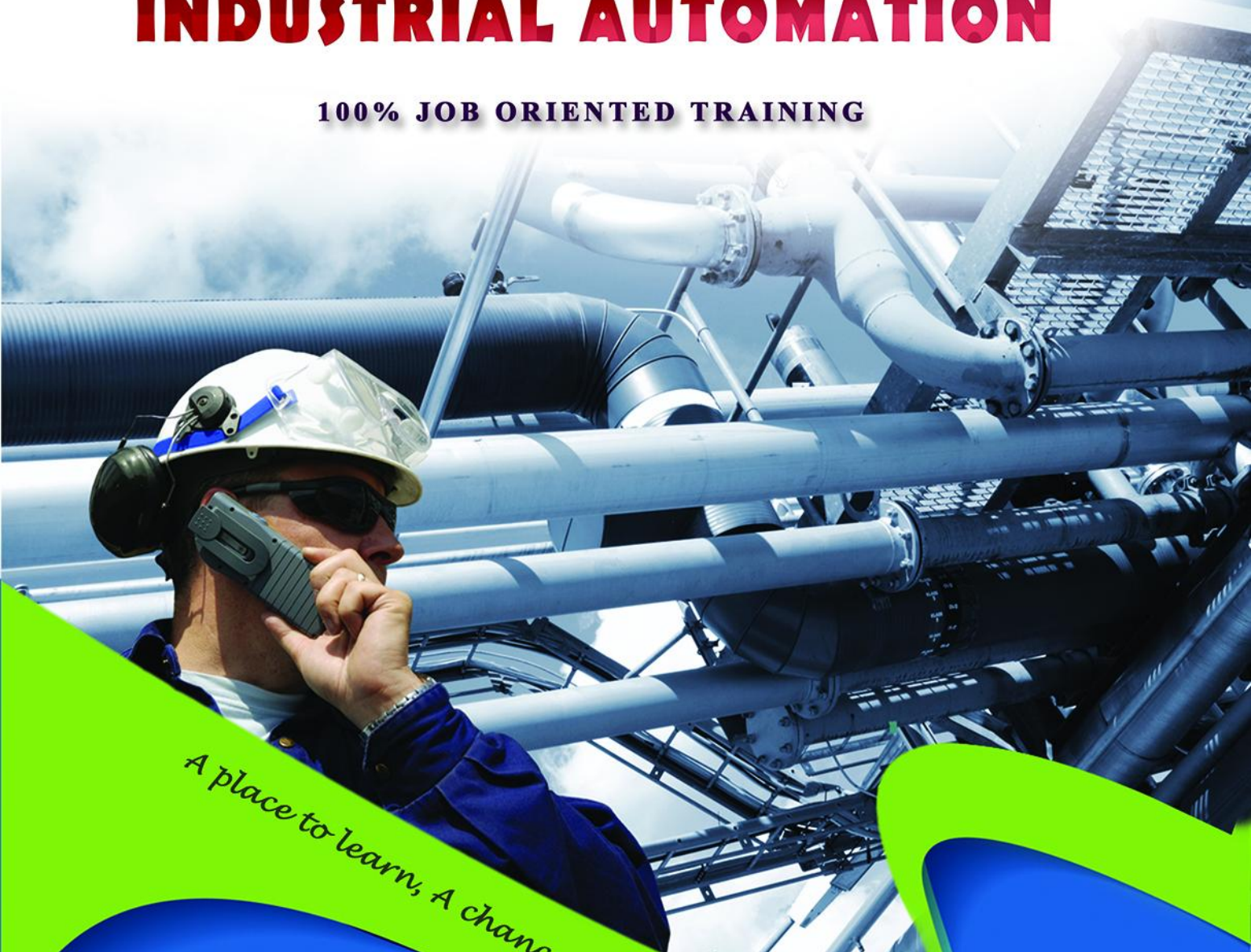




INDUSTRIAL AUTOMATION

100% JOB ORIENTED TRAINING



A place to learn, A chance to grow...

- State of the Art Lab Facilities.
- Emphasis on Practical Oriented Training.
- Ongoing project with exposure to live systems.
- Training provided by experienced R&D Engineers
- Regular Aptitude training, Mock Interviews & GD
- Individual attention to each student during training.

Programmable Logic Controllers



Introduction - Automation
PLC Hardware / Architecture
Relay / Digital Logics
Ladder Logics Programming
Functional Block Programming
PLC Scan Cycle
Bit, Byte & Word Instructions
Compare / Logical / Arithmetic
Program Control Instructions
Timer, Counter Configuration
Instruction Set, SFR
PID Mode Programming
Upload / Download / Monitoring of Program
Forcing Inputs & Outputs
Analog Input / Output Addressing
Digital Input / Output Addressing
PLC Troubleshooting
I/O Modules Configuration
Panel Wiring Designing
Communication Drivers
Networking Configuration
MMI / SCADA Interface
Applications

DISTRIBUTED CONTROL SYSTEMS

Honeywell C300 (Series 8)



SCADA

Citect

Introduction - SCADA
Creating Database
Images ,Objects Configuration
Dynamic Properties (Blinking Visibility, Movement, Filling)
Tag Creation And Addressing
Macro Editor
Alarm / Events Configuration
Trends - Realtime And Historical
Database And DDE Connectivity
I/O Driver Configuration
Interfacing With PLC

Rockwell
Automation

iFIX™

Wonderware

WinCC®

variable frequency drive (VFD)

VFD Selection	Commissioning ,No Load Test
Parametrisation	Interfacing PLC to VFD
Checking Load	Speed Modulation
Rated Voltage	ON/Off Command
Rated Current	Trip Status / PID Tuning
Rated RPM	Real Time Interface with PLC & SCADA

Pneumatics & FIELD INSTRUMENTS

On/Off Solenoid Valves	Level Transmitter
Piston Displacement	Flow Transmitter
Control Valves	RTD /Thermocouple
Actuator	Flow Control
I/P Convertor	Level Control
DP Transmitter	Temperature Control
	Proximity Sensors

Training Duration , Timings & Fees Details

Certified Automation Engineer (CAE) - 15,000

(6 plc ,2 Scada, VFD, P & FI)

Advanced Diploma in Industrial Automation (ADIA) - 25,000

(6 plc ,3 Scada, VFD, P & FI, HMI, MCC Panel)

Post Graduate Diploma in Industrial Automation (PGDIA) - 35,000

(7 plc ,5 Scada, VFD, P & FI,HMI,PAC,ISPW,MCC Panel)

Advanced training in DCS (Honeywell C-300) - 20,000

Industrial Internship in Automation - 85,000

Courses	Duration (days)	
	NT	FT
CAE	30	15
ADIA	50	25
PGDIA	80	40
DCS	10	05
IIA	100	50

www.smeclabs.com

Head Office

SMEC Automation Pvt Ltd.
2nd Floor,
Bus Stand Complex,
Kaloor, KOCHI-682017
Kerala, India
Tel:0484-2340904, 2336441

