

DONBOSCO Technical Institute



DON BOSCO TECHNIQUE - FIDAR

offers AUTOMATION Courses for PLC/HMI

The candidates learn how to program and troubleshoot PLC and HMI system with hand tools on products during the whole course in our BECKHOFF equipped labs.

BECKHOFF specialist will be conducting the course and certification will be given to all candidates who pass the 4 courses.

BECKHOFF New Automation Technology

Duration of the course: 7 months (120 hrs)

Three days per week: Tuesday, Wednesday and Thursday

Time: From 6:00 pm till 8:00 pm

[The course is divided into four levels:](#)

- Level 2: (30 hrs) from 00/00/2016 till 00/00/2016
Cost: 350\$

Main SPONSOR:



For more information: 09-478331-2 / 70-120860

Fax :09-478330

DONBOSCO Technical Institute

Sponsored by Industrial Technologies S.A.L (ITEC)

Industrial Automation (PLC)

Syllabus course 2016

By Level

Level 2: PLC PROGRAMMING AND IMPLEMENTATION

MODULE4: BASIC PLC INSTRUCTIONS

- Data Type Overview
- Timers and Counters
- Timer Instructions
- Counter Instructions
- Program/Flow Control Instructions
- Arithmetic Instructions
- Data Manipulation Instructions
- Data transfer instructions
- Special Function Instructions
- Network Communication Instructions
- Boolean Mnemonics

MODULE5: SYSTEM DESIGN & IMPLEMENTATION

- Control Task Definition
- Control Strategy
- Implementation Guideline
- Programming organization
- Discrete I/O Control Programming
- Analog I/O Control Programming
- Program Download and Troubleshooting
- Programming Example

Aim of second level:

By accomplishing this level the student will be able to write more complete automation program and to troubleshoot downloaded program.

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Industrial Automation (PLC) Syllabus course 2016

All Courses are presented by Eng. Roy Samia



Roy has over 12 years experience in designing, developing and commissioning complete automation, SCADA and instrumentation systems for different high end market sectors such as oil & Gas, Water & Wastewater, Food & Beverage,...

His areas of special interest include PLCs, SCADA systems, process control and programming.

Having spent many years in programming and troubleshooting PLC and SCADA applications and has extensive experience in multiple well known brands such as BECKHOFF, SIEMENS, ABB, SCHNEIDER ELECTRIC, ALLEN BRADLEY, WONDERWARE,...

Roy is an active member of ISA (The International Society of Automation) and is currently heading the Power and Automation division at EMCO Engineering Group specialized in providing water solutions for different market sectors.