

# THE INSTITUTE OF INDIAN FOUNDRYMEN

**National Centre for Skill Development  
(Formerly Known as CET)**



**Residential / Non Residential  
Training Program on**

**HYDRAULICS, PNEUMATICS & PLC  
FOR FOUNDRY  
MAINTENANCE ENGINEER**



**DURATION  
OF THE  
PROGRAM  
- 04 DAYS**



**Course Fee:  
Based on Training  
Location**



**V Narasimhan**  
Mentor  
NCSD

**K Dhayalan**  
Chairman  
NCSD

**C Sathyamurthy**  
Co-Chairman  
NCSD

Sl. No	Course Content
<b>Hydraulics &amp; Pneumatics</b>	
1	Introduction and Basic Hydraulics, Pneumatics and Symbols Used.
2	Pumps (Energy Generators)
3	Directional Control Valves
4	Pressure Control Valves
5	Flow Control Valves
6	Check and Pre-Fill Valves
7	Motors and Cylinders (Actuators)
8	Accessories – Filters, Regulators, Lubricators, Accumulators, etc
9	Study of Typical Circuits
10	Trouble Shooting and Maintenance
11	Air compressors/ types/ volumetric efficiency of compressors
12	Condition Monitoring and Diagnostics of Hydraulic Equipment.
13	Electro Pneumatics – Control Systems, Components, Sensors, Relays & Contactors.
14	Relay Control System – Applications, Circuits Diagram with Examples.
<b>Programmable Logic Controllers (PLC)</b>	
15	Introduction, Ladder Languages and Basic Instructions.
16	Process Control Problems Classifications
17	Timers and Counters with Examples
18	Data Handling Instruction, Arithmetic Instruction, Logic Instruction, I/O Instruction & Program Control Instructions.
19	Sensors, Switches & Solid State Relays
20	Sequential Process Control with Examples
21	PLC – Application Examples of Production Line & Random Process Control.

Contact us:

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