

	CENTRE OF EXCELLENCE IN MANUFACTURING NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI	
	Process Instrumentation Lab	
Basics of Process Instrumentation		Duration: 40 Hours
PREREQUISITES	Basic Knowledge in Field Instruments	
WHO SHOULD ATTEND	Engineering student, Industry People, Research Scholars	
Introduction		5 Hours
Introduction Process Instruments – Application of Process Instruments-Field Device-Communication Protocols –Process Device Manager (PDM) Software- PLC and DCS.		
Field Devices		20 Hours
Pressure Transmitter -Measurement Technologies-Features-Configuration-Commissioning-Troubleshooting.		
Temperature Transmitter -Measurement Technologies-Features-Configuration-Commissioning-Troubleshooting.		
Flow Transmitter -Measurement Technology (Mag flow, Mass flow, Ultrasonic flow)-Features-Configuration-Commissioning-Troubleshooting.		
Level Transmitter -Measurement Technology (Ultrasonic, Radar, Capacitance)-Feature-Configuration-Commissioning-Troubleshooting.		
Electro Pneumatic Positioner - Measurement Technology (Rotary)-Features-Configuration-Commissioning-Troubleshooting.		
Inter Connection		15 Hours
Interface- Process Device Manage Software-Field Device Coupler- Profibus PA- HART		