

**Instrumentation Engineering
& Maintenance**

Section (A): Programmable Logic Controller		
<i>Programmable Logic Controller; Architecture and Basic Programming PLC</i>	E/T/P	MI5
<i>PLC Advanced Programming Maintenance and Troubleshooting</i>	E/P	MI16
Section (B): Process Control		
<i>Advanced Process Control (APC); Loops, Troubleshooting and Atomization</i>	E/T	MI2
<i>Process Control Applied for Rotating Equipment (Compressors and Gas Turbine)</i>	E/T	MI26
<i>Basic Process Control and Instrumentation</i>	T	MI3
<i>Fundamentals of Instrument and Controls for Facilities Engineers</i>	E	MI10
Section (C): Measurements		
<i>Advanced Process Measurements</i>	E	MI4
<i>Advanced Flow Measurement</i>	E	MI20
<i>Gas Measurement and Flow Metering Station</i>	E/T	MI14
<i>Instrumentation Systems Selection, Maintenance and Troubleshooting</i>	E/P	MI15
<i>Level Measurements Technologies & Automatic Tank Gauging</i>	E/T	MI27
Section (D): Valves		
<i>Control Valves Selection, Maintenance and Operations</i>	E/T/P	MI6
<i>Safety Relief Valves Devices</i>	E/T/P	MI12
<i>Valves Types Technology Maintenance and Troubleshooting</i>	E/T/P	MI17



Section (E): Control Systems

<i>Field Bus System; Driving Total Productivity Management</i>	E	<i>MI7</i>
<i>Basic Distributed Control System (DCS) and SCADA New!</i>	T	<i>MI22</i>
<i>Advanced Technology in DCS & SCADA Systems</i>	E	<i>MI11</i>
<i>Introduction To Control Systems</i>	E/T	<i>MI32</i>
<i>PLC & SCADA Technologies New!</i>	E	<i>MI23</i>
<i>Burner Management System (BMS) New!</i>	E	<i>MI24</i>

Section (F): Protection Systems

<i>Safety Instruments Systems; New Emergency Shutdown Approach (SIS)</i>	E	<i>MI8</i>
<i>Fire & Gas System; Detectors, Technologies and Guard Controller</i>	E/T	<i>MI9</i>
<i>Instrumentation Installation in Hazardous Area Classification and Equip. Selection</i>	E/T	<i>MI21</i>

Section (G): Engineering and Planning

<i>Applying Standard Instrumentation and Control Documentations</i>	E	<i>MI20</i>
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