

Instrumentation

SESSION	RECOMMENDED TOPIC SEQUENCE - FIRST HALF
1	Course Overview and Introduction to Instrumentation
2	Process Variables, Elements and Instruments - Pressure
3	Process Variables, Elements, and Instruments - Temperature; Test Review
4	Test #1; Process Variables, Elements, and Instruments - Level
5	Process Variables, Elements, and Instruments - Flow
6	Process Variables, Elements, and Instruments - Analytical
7	Miscellaneous Measuring Devices; Test Review
8	Test #2; Introduction to Control Loops (Simple Loop Theory)
9	Control Loops: Primary Sensors, Transmitters, and Transducers
10	Control Loops: Controllers
11	Control Valves and Final Control Elements; Test Review
12	Test #3; Symbology; Process Diagrams - Part 1
13	Process Diagrams - Part 2
14	Instrumentation Sketching
15	Instrumentation Troubleshooting
16	Test # 4
SESSION	RECOMMENDED TOPIC SEQUENCE - SECOND HALF
1	Course Introduction and Instrumentation Review
2	Regulators, Switches, Relays and Enunciators
3	Signal Transmission and Conversion; Test Review
4	Test #1; Controllers
5	Controllers
6	Control Schemes
7	Advanced Control Schemes
8	Advanced Control Schemes; Test Review
9	Test #2; Intro to Digital Control
10	Programmable Logic Control
11	Distributed Control Systems (DCS)
12	Instrumentation Power Supply; Test Review
13	Test #3; Emergency Shutdown (ESD), Interlocks, and Protective Devices - Part 1
14	Emergency Shutdown (ESD), Interlocks, and Protective Devices - Part 2
15	Instrumentation Malfunctions; Test Review
16	Test #4