NCC In-House Training Courses
In

Instrumentation and Process Engineering

1. Advanced Application to Control by Computer
2. Advanced DCS
3. Advanced PLC Programming "Siemens, Allen Bradley, …"
4. Advanced Process Control and Instrumentation
5. Advanced Process Control and Loop Tuning
6. Advanced SCADA system (Design, commissioning, startup and troubleshooting)
7. Analogue Communication
8. Anti-Surge Controller
9. Applied Electronics
10. Applied Process Engineering Fundamentals
11. Automatic Tank Gauging ATG
12. Basic Gas Processing Calculations
13. Best Practice In Industrial Data Communications
14. Boiler Control & Burner Management Systems
15. Boiler Control and Instrumentation
16. Boiler Operation & Control
17. Calibration of Pressure, Temperature & Flow Measuring Instruments
18. Certified Control Systems Technician (CCST)
19. Commissioning and Troubleshooting Control Systems
20. Compressor Control and Operation
21. Configuring and Testing Smart Field Devices
22. Control & Operation of Centrifugal Gas Compressors
23. Control and Safety In Gas And Oil Complex Industries
24. Control System of Electrical Motors
25. Control Valve Selection & Sizing
26. Control Valve Technology and Maintenance
27. Crude Metering & Measurement Systems
28. Custody Transfer Metering
29. DC/DC convertor
30. DCS-ICS Operation
31. Design & Establishing printed circuit

تليـفون : ٦٦٥٨٢٠٠ ٢ (٩٧١+) ـ فاكس : ٦٦٥٣٣٠٣ ٢ (٩٧١+) ـ ص.ب : ٢٦٣٥٦ ـ أبوظبي ـ الإمارات العربية المتحدة

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32. Designing Telecommunications Distribution System
33. Digital Electronic Circuits (Advanced)
34. Digital Electronic Circuits (Basic)
35. Distributed Control Systems (DCS) Fundamentals, Applications and troubleshooting
36. Emergency Response Course for Panel Operators
37. Emergency Shutdown and Blow down for Oil and Gas Processes
38. Enhanced Maintenance Planning, Coordination & Scheduling Process
39. Fiber Optic communication systems
40. Field Instruments
41. Fieldbus Technology in Industrial Automation
42. Final Control Elements
43. Fire and Gas Detection And Alarm System Training (FGS)
44. Fired Process Heater Operation, Control & Troubleshooting
45. Flare and Overhead Pressure Protection
46. Flow Measurement Techniques
47. Flow Meters and Meters Proving
48. Foundation Fieldbus
49. Gas & Fire Systems
50. Gas Conditioning and Processing for Engineers
51. Gas Information System
52. Gas Metering System
53. Gas Processing Equipment Troubleshooting
54. Gas Processing for Operators
55. Gas turbine control system
56. Gas Turbine Operations with MK VI Speedtronic Control System
57. General Instrumentation & Process Control for Industrial Applications
58. Grounding and Noise Considerations for Control Equipment and Computers
59. Hydraulic Electronic Control Systems
60. Industrial Automation Using PLC
61. Industrial communication protocols and topologies (Modbus, Fieldbus, Profibus, Ethernet, Serial…)
62. Industrial Instrumentation and Modern Control Systems (Process Control & Instrumentation)
63. Industrial Process Measurement and Control
64. Installation, Calibration and Maintenance of Electronic Instruments

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65. Instrumentation & Essential of Process Control and Advanced Process Control
66. Instrumentation and Electrical Installation in Hazard Area
67. Instrumentation for Non-Instrument Personnel
68. Intrinsic Safety, Galvanic Isolation and Zener Barriers Technology & Applications
69. Introduction to Control Systems in Petrochemical Industry (SCADA/PLC/DCS)
70. Liquid and Gas Flow metering
71. LNG Tanks Level Management System (TMS)
72. Maintenance of Process Plant Equipment
73. Measurement of Process Variables
74. Microprocessor Concepts and Applications
75. Microwave Technology
76. Modern Distributed Control Systems (DCS) and Process Instrumentation - Practical Applications
77. New Techniques for Flow Measurement and Leakage Detection
78. Oil Field Water Technology
79. Optimization & Rehabilitation of Water Treatment Plants
80. P & I Diagrams, Equipment Data Sheet
81. Petroleum Tank Measurement, Metering and Meter Proving
82. Planning, Justifying, and Executing Automation and Control Projects
83. Pneumatic Electronic Control Systems
84. Power Line Carrier
85. Power System Communication
86. Practical Boiler Control and Instrumentation for Engineers and Technicians
87. Practical Data Communications & Networking for Engineers And Technicians
88. Practical Distributed Control Systems (DCS) for Engineers & Technicians
89. Practical Electronics (Advanced)
90. Practical Electronics (Basic)
91. Practical Field bus for Process Control: Engineering, Configuration, Installation, Commissioning, Troubleshooting, Operation and Maintenance
92. Practical Fundamentals of Telecommunications and Wireless Communications
93. Practical Industrial Data Communications & Telecommunications

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94. Practical Process Control & Tuning of Industrial Control Loops
95. Practical Programmable Logic Controllers (PLC's) For Automation and Process Control
96. Practical Safety Instrumentation & Emergency Shutdown Systems for Process Industries
97. Practical Safety Instrumentation and ESD Systems
98. Process ANALYZERS
99. Process Control and Safeguarding
100. Process Design for Process Plant Equipment
101. Process Engineering Calculations
102. Process Engineering Flare and Overpressure System
103. Process Equipment Design, Sizing, Selection, Applications, Maintenance & Troubleshooting
104. Process Equipment: Fired Heaters, Air Coolers, Heat Exchangers, Piping, Pumps, Compressors, Process
105. Process Instrumentation & Control: Practical Measurement, Instrumentation & Control
106. Process Plant Start-up & Shutdown
107. Process Plant Start-Up, Commissioning & Troubleshooting
108. Process Plant Troubleshooting & Engineering Problem Solving
109. Process Reactors: Operation, Troubleshooting, Start-Up & Shutdown: Hydro-Treating, Catalytic Reforming & Hydrocracking
110. Process Safety Management
111. Process Modeling Using HYSYS
112. Process Simulation using UNISM
113. Process Troubleshooting & Problem Solving
114. Production Chemicals Dosage Optimization
115. Production Processing Facilities
116. Programmable logic Control (PLC)
117. Programmable Logic Controllers (PLC) & SCADA System
118. Refining Process Simulation Using HYSYS
119. Reverse Osmosis (RO) Water Desalination
120. Root Cause Analysis for Oil and Gas Process Equipment
121. Rules of Thumb for Chemical & Process Engineers
122. Safe Isolation of Process Plant Equipment
123. Safety in Process Design
124. Safety Instrumentation and Emergency Shutdown Systems

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125. Safety Instrumented Systems (SIS) For Process Industries Using IEC 60511 and IEC 61508
126. SCADA System: Application and Practical Design
127. Sizing, Selecting ,And Applying Process Control Valves
128. Sour Gas Treatment & Sulphur Recovery
129. Standards & Codes in Process Industry API, ASME, ASTM, ANSI, AWS, NBIC, ISO, NFPA, NEC & ISA)
130. Surface Facilities Process Advanced
131. Troubleshooting of Instrumentation, Electrical and Process Control Systems
132. Tuning Control Loops, Feedback And Advanced Controllers
133. Turbine and Compressor Controls
134. Ultrasonic Flow metering for Gas & Liquid Application
135. Variable Speed Drivers (VSD/VFD)
136. Water Desalination Technologies
137. Water Treatment and Oil Well Injection
138. Wellhead Control System

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