



مركز المستشار الوطني للتدريب
National Consultant Centre For Training

NCC In-House Training Courses In

Instrumentation, Control & Process Engineering

1. Advanced Application to Control by Computer
2. Advanced Distribution Control System (DCS)
3. Advanced PLC Programming
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. Commissioning and Troubleshooting Control Systems
19. Compressor Control and Operation
20. Configuring and Testing Smart Field Devices
21. Control & Operation of Centrifugal Gas Compressors
22. Control and Safety in Gas and Oil Complex Industries
23. Control System of Electrical Motors
24. Control Valve Selection & Sizing
25. Control Valve Technology and Maintenance
26. Crude Metering & Measurement Systems
27. Custody Transfer Metering
28. Data Communications & Networking for Engineers and Technicians
29. DC/DC convertor
30. DCS-ICS Operation
31. Design & Establishing printed circuit



مركز المستشار الوطني للتدريب
National Consultant Centre For Training

- 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 bus for Process Control: Engineering, Configuration, Installation, Commissioning, Troubleshooting, Operation and Maintenance
- 41.Field Instruments
- 42.Fieldbus Technology in Industrial Automation
- 43.Final Control Elements
- 44.Fire and Gas Detection and Alarm System (FGS)
- 45.Fired Process Heater Operation, Control & Troubleshooting
- 46.Flare and Overhead Pressure Protection
- 47.Flow Measurement Techniques
- 48.Flow Meters and Meters Proving
- 49.Foundation Fieldbus
- 50.Fundamentals of Telecommunications and Wireless Communications
- 51.Gas & Fire Systems
- 52.Gas Conditioning and Processing for Engineers
- 53.Gas Information System
- 54.Gas Metering System
- 55.Gas Processing Equipment Troubleshooting
- 56.Gas Processing for Operators
- 57.Gas turbine control system
- 58.Gas Turbine Operations with MK VI Speedtronic Control System
- 59.General Instrumentation & Process Control for Industrial Applications
- 60.Grounding and Noise Considerations for Control Equipment and Computers
- 61.Hydraulic Electronic Control Systems
- 62.Industrial Automation Using PLC
- 63.Industrial communication protocols and topologies (Modbus, Fieldbus, Profibus, Ethernet, Serial...)
- 64.Industrial Data Communications & Telecommunications
- 65.Industrial Instrumentation and Modern Control Systems (Process Control & Instrumentation)



مركز المستشار الوطني للتدريب
National Consultant Centre For Training

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



مركز المستشار الوطني للتدريب
National Consultant Centre For Training

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



مركز المستشار الوطني للتدريب
National Consultant Centre For Training

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