



مركز المستشار الوطني للتدريب
National Consultant Centre For Training

NCC In-House Training Courses In

Mechanical Engineering

1. Advanced Air Conditioning & Refrigerating Technology
2. Advanced Machinery Reliability Analysis
3. Advanced Mechanical Maintenance
4. Advanced Pipeline Operations & Maintenance
5. Advanced Steam Turbines for Design, Operation & Maintenance
6. Advanced Technology of Pipeline Design, Construction & Mechanical Integrity Workshop
7. Advanced Valve Technology: Design, Selection, Installation, Applications, Sizing, Inspection, Maintenance
8. Advanced Vibration Diagnostics
9. Advanced Water Distribution System Operation & Maintenance
10. Alignment & Troubleshooting of Rotating Machinery
11. Alignment Methods & Application
12. Analytical Prevention of Machinery Failure, Pm & Troubleshooting Of Plant Rotating Equipment
13. Analytical Troubleshooting In Process Machinery & Pressure Vessels
14. API 510: Pressure Vessel Inspection Code: Maintenance, Inspection, Rating, Repair & Alteration
15. API 579 Fitness For Service Evaluation
16. API 579-1/ASME FFS-1 Training Course
17. API 653-Tank Inspection Code Inspection, Repair, Alteration, & Reconstruction Of Steel Aboveground Storage Tanks
18. Application of Standards in Boiler, Pressure Vessel & Piping Codes
19. Applying Reliability Engineering Principles to Process Equipment Maintenance
20. ASME Boiler & Pressure Vessel Code: Section VIII, Division 1, Design & Fabrication Of Pressure
21. Asset Integrity Management
22. Audits of Existing Rotating Machinery Installations
23. Basic CSI Machinery Vibration
24. Basic Operation & Theory of Steam & Gas Turbines, Co-Generation, & Combined Cycle Plants
25. Bearing Installation Maintenance, Troubleshooting & Failure Analysis
26. Boiler Operation, Maintenance & Water Treatment Technology
27. Boiler Water Treatment
28. Catalysts In Refining & Petrochemical Industries
29. Cathodic Protection Systems: Design, Fabrication, Installation, Operation & Repair



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30. Centrifugal & Reciprocating Gas Compressor: Operation, Performance, Troubleshooting
31. Centrifugal Compressor & Steam Turbine Design Operations & Maintenance
32. Centrifugal Compressor Maintenance (Major Inspection & Overhaul)
33. Centrifugal Pump Selection, Construction, Operation, Maintenance, Repair & Troubleshooting
34. Chiller Design, Installation, Maintenance & Troubleshooting
35. Combustion Techniques In Furnaces, Boilers & Other Fired Equipment
36. Compressor & Turbo-Expander Operation & Troubleshooting
37. Compressor Design, Operation, & Maintenance
38. Compressors Failure Analysis Inspection & Troubleshooting
39. Compressors Major Inspection & Overhaul
40. Compressors Operation, Maintenance & Troubleshooting
41. Condition Monitoring & Vibration Control of Machines /Plants
42. Control Valve & Actuator: Selection, Calculations, Sizing, Applications, Operation, Diagnostic Testing, Trouble Shooting & Maintenance
43. Corrosion & Corrosion Prevention In The Petrochemical Industries
44. Corrosion Engineering: Monitoring, Prevention & Control
45. Crane Operator Onshore/Offshore
46. Current Inspection Trends In Fabrication & Plant Maintenance
47. Data Analysis Techniques for Engineers & Technologists
48. Design & Fabrication Of Storage Tanks In Accordance With API 650
49. Design & Operating Conditions of Centrifugal Pumps & Prime Movers (VSD & FSM)
50. Design & Fabrication Shell-&-Tube Heat Exchangers In Accordance To ASME & TEMA Codes
51. Design, Analysis & Fabrication of Pressure Vessels
52. Diesel Power Generating Maintenance & Troubleshooting
53. Engine Condition Monitoring Systems
54. Failure Prevention & Repairs To Static Process Equipment & Piping
55. Failures, Failure Prevention & Repairs to Static Process Equipment & Piping
56. Fans & Blowers: Performance, Measurement, Troubleshooting & Maintenance
57. Fault Diagnosis & Failure Prevention
58. Fundamentals of Machinery Lubrication
59. Fundamentals of Vibration Causes, Effects, Analysis & Prevention Techniques
60. Gas Compressor & Prime Mover Configuring & Operating Theory
61. Gas Turbine Technology: Design, Operation, Control, Troubleshooting & Maintenance
62. Gas Turbines: Operation, Troubleshooting, Maintenance & Inspection
63. Gas Turbines: Troubleshooting, Maintenance & Inspection
64. Gear Boxes: Selection, Inspection, Maintenance, Troubleshooting & Repair
65. Heat Exchanger Inspection, Maintenance & Operation
66. Heating System
67. Heating, Ventilation & Air-Conditioning (HVAC) Systems



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68. HVAC Air System Design
69. HVAC Systems Fundamentals & Heating, Ventilation & Air-Conditioning (Hvac) Systems
70. Hydraulic & Pneumatic Maintenance & Trouble Shooting
71. Hydraulic Oil & Gas Pipelines
72. Hydraulic System Maintenance
73. Implementation, Integration & Management of Statutory Pressure Vessels Inspections
74. Industrial Boilers Operation & Troubleshooting
75. Industrial Equipment: Compressors, Pumps, Motors & Variable-Speed Drive : Selection Sizing, Application
76. Industrial Painting Selection & Evaluation
77. Industrial Piping & Associated Equipment
78. Inspection FFS Flaw Evaluation, & Repair/Alterations of Pressure Vessels
79. Introduction to Rotating Equipment Maintenance
80. Introduction to Static Equipment (Valves, Pressure Vessels, Piping & Heat Exchanger)
81. John Crane Dry Gas Seals
82. Kiln Troubleshooting
83. Lifting & Rigging Equipment: Selection, Sizing, Applications, Operation, Diagnostic Testing, Troubleshooting
84. Machinery Bearing, Lubrication & Reliability (Tribology)
85. Machinery Diagnostics
86. Machinery Failure, Vibration Analysis & Predictive Maintenance
87. Machinery Root Cause Failure Analysis (RCFA)
88. Machinery Vibration Analysis & Predictive Maintenance
89. Maintenance & Operation of Rotating Equipment
90. Maintenance & Fault Finding of Central Air Conditioning Units & Chillers
91. Maintenance & Troubleshooting of Conveyors & Chutes
92. Management of Boilers, Steam Turbines & Steam Plant
93. Material Selection & Failure Analysis for Oil Field Equipment
94. Materials for Operation & Maintenance Of Stationary & Mobile Equipment
95. Materials of Construction for Process Equipment & Piping Systems
96. Mechanical Codes
97. Mechanical Dry Gas Seals & Coupling (Operation & Maintenance)
98. Mechanical Engineer for Non-Mechanical Engineer
99. Mechanical Engineering Design
100. Mechanical Integrity & Reliability In Refineries Petrochemical & Process Plants
101. Mechanical Seals: Designs, Application, Selection, Installation, Troubleshooting & Maintenance
102. Metallurgy & Material Selection For Mechanical Engineers
103. Metallurgy for Non Metallurgists - Advanced
104. Modern HVAC Operations & Troubleshooting Technology
105. Multi-Stage Pump Overhauling



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106. NDT Inspection Technique & Application In Refinery
107. Nonmetallic Pressure Piping Systems (Fiberglass)
108. Nuclear Mechanical Systems & Components
109. Offshore Pipeline Design, Construction, Inspection, Maintenance & Repair
110. Operation & Maintenance of Hydraulically Operated Equipment
111. Operation & Maintenance of Lifting Equipment
112. Operation & Maintenance of Refrigeration Equipment for Technicians
113. Operation, Diagnostics & Maintenance of Equipment for Oil & Gas Production
114. Operation, Maintenance & Troubleshooting of Pumps, Compressors & Valves
115. Pipeline & Piping Inspection, Maintenance & Integrity Assessment (ASME B31 & API 579 Standards)
116. Pipeline Design, Analysis & Fabrication
117. Pipeline Inspection, Maintenance & Integrity Assessment (ASME B31 & API 579 Standards)
118. Pipeline Integrity Assessment - Practical Aspects
119. Pipeline Pigging - Technical & Operational Aspects
120. Pipelines Hot Tapping & Plugging Equipment
121. Piping & Valves: Design, Construction, Operation & Integrity
122. Piping Design & Drafting for Process & Oil & Gas
123. Piping Design, Construction & Mechanical Integrity (ASME B31.3 & API 570)
124. Piping Stress Analysis & Design of Pipe Supports
125. Piping System Design & Maintenance
126. Piping Systems & Pipeline Integrity with an Application of ASME B31 Codes
127. Piping Vibration Analysis & Practical Engineering Solutions In Process Plants
128. Pipeline Pigging - Technical & Operational Aspects
129. Practical Boiler Plant: Operations, Maintenance & Troubleshooting
130. Practical Hydraulic Systems: Operation & Troubleshooting
131. Practical Machinery Vibration Monitoring, Analysis & Predictive Maintenance
132. Practical Pump & Valve Technology
133. Practical Pump Technology: Selection, Operation & Maintenance
134. Practical Valve Technology: Selection, Installation, Upgrading, Inspection & Troubleshooting
135. Predictive & Preventive Maintenance for Diesel Generator
136. Preventive Maintenance & Troubleshooting of Pumps & Compressors
137. Principles & Operation Of Centrifugal Pumps
138. Process Piping, Valve, Flange Classes Selection Specification Fittings & Layouts
139. Pump Selection, Installation, Performance & Control
140. Pump Technology (Selection, Operation & Maintenance)
141. Pumps & Compressors In Oil & Gas Facilities
142. Pumps, Compressors Design, Maintenance & Troubleshooting
143. Pumps, Valves, Heat Exchanger Operation & Troubleshooting
144. Pumps: Design, Operation & Maintenance
145. RBI & FFS Of Pipeline, Piping, Vessels & Tanks (API 579-580-581) & Repair Practices



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146. Remote Leak Detection of Gases & Fluids
147. Reverse Osmosis Technology (RO), Operation & Maintenance
148. Root Cause Bearing Failure Analysis
149. Rotating Equipment Alignment & Balancing
150. Rotating Equipment Reliability Optimization & Continuous Improvement
151. Rotating Equipment Vibration & Monitoring
152. Rotating Equipment, Compressors & Pumps: Operation, Control & Troubleshooting
153. Safety Relief Valve Inspection, Maintenance, Operation, Troubleshooting & Repair
154. Scaffolding Inspectors Comprehension Courses
155. Screw Gas Compressors & Dry Gas Seals Applications
156. Screw Instrument Air Compressor Operation & Maintenance (KAESER)
157. Shaft Repair, Alignment & Balancing
158. Startup & Shutdown the Plant While Handling Abnormal Conditions
159. Statutory Inspection of Pressure Vessels Implementation Integration & Management
160. Steam System Assessment
161. Steam Turbine Design, Operation, & Maintenance
162. Steel Aboveground Storage Tanks Inspection, Repair, Maintenance & Corrosion Control
163. Super Alloy Gas Turbines
164. Surface Equipment - Maintenance & Operation
165. Surge Relief Valve, Inspection, Maintenance & Troubleshooting
166. Tank & Tank Farms: Design, Operation, Measurement, Inspection & Maintenance
167. Tank Farm Operation & Performance
168. Technical Integrity & Engineered Safety In Petrochemical Plants
169. Technology of Pipeline Design, Pipe Supports, Shoes, Guides & Anchors Design & Drafting
170. The Advanced Rotating Equipment: Troubleshooting of Pumps, Compressors, Gearboxes & Dynamic Balancing
171. The Layout of Piping Systems & Process Equipment
172. Troubleshooting Plant Rotating Equipment & Effective Predictive Maintenance
173. Turbomachinery Monitoring & Problem Analysis
174. Utilities & Energy Systems Design & Performance in Refineries & Petrochemical Plants
175. Valve Troubleshooting & Maintenance
176. Variable Refrigerant Volume
177. Vibration Pumps Testing
178. Water System Design & Operation Of Distribution Networks
179. Water System Networking & Pumping Stations
180. X-Tree Valves & Line Pigging