



مركز المستشار الوطني للتدريب
National Consultant Centre For Training L.L.C

**NCC In-House Training Courses
In**

**تكنولوجيا صناعة الاسمنت
Cement Industry Technology**

1. A Brief Introduction to Cement Manufacture
2. Advanced Equipment & Process Functions
3. Advanced Equipment Operation
4. Advanced Gas Flows
5. Advanced Lab Quality Management System.
6. Advanced Physico-Chemistry of Cement
7. Advanced Typical Incidents
8. Air Separator
9. Air Slides
10. Alternative Fuels
11. Aspects of Raw Material Homogenization
12. Atox 50 Hydraulics
13. Atox 50 Roller Lubrication
14. Atox Operation-Tamdiep
15. Ball Charge Management
16. Ball Mill Basics
17. Basic Equipment & Process Functions
18. Basic Equipment Operation
19. Basic Gas Flows
20. Basic Incidents Diagnosis & Recovery
21. Basic Physico-Chemistry of Cement
22. Basic Typical Incidents
23. Belt & Chain Bucket Elevator
24. Belt Conveyors Selection, Operation & Maintenance in Cement Plants
25. Blending
26. Burners and Flames
27. Burning of Clinker
28. Cement Chemistry & Laboratory Analysis Techniques
29. Cement Grinding Systems
30. Cement Kiln Process Chemistry
31. Cement Kiln Process, Operation and Control
32. Cement Manufacturing Performance
33. Cement Plant Operation & Maintenance
34. Cement Process
35. Cement Production Technology & Equipment Selection
36. Cement Quarries Operation
37. Cement Standard Specification & Testing Methods



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38. Chemical & Physical Cement Standards
39. Chemical Hazards and Mat Handling
40. Chemistry Laboratory Safety Rules
41. Chemistry Safety
42. Circulation Phenomena
43. Clinker Coolers
44. Clinker Grinding, Milling and Separation Cycle Techniques
45. Collecting Samples
46. Combustion Engineering
47. Combustion, Burners & Flames Adjustment in Kiln Operations
48. Conveying and Handling Systems
49. Conveying System
50. Cooling & Mill Ventilation
51. Cooling and Heating in the Cement
52. Crusher Types General
53. Crushing Process
54. De-Dusting Equipment & Technology in Cement Plants
55. Dealing with Cement Manufacturing Problems
56. Design of Belt Conveyor
57. Design of Bins and Feeders
58. Electrical Power Supply and Distribution
59. Emission at the Main Stack
60. Environmental Aspects
61. Equipment & Process Functions
62. Equipment Operation
63. Essentials & Basics of Analytical Chemistry
64. Essentials of Analytical Chemistry
65. Fans & Blowers
66. Fresh feed and Pre-Grinding
67. Gas Flows
68. Gear Boxes Operation & Maintenance, Troubleshooting & in Cement Plant
69. Global Cement Manufacturing Knowledge
70. Grinding & Milling Technology Equipment
71. Grinding Process
72. Grinding Technology
73. Grinding Technology & Efficiency in Cement Plants
74. Grinding Tools Management
75. Hazards and Risks while Collecting samples.
76. Hazards while Collecting Samples
77. Hazards, Risks and Safety while collecting Samples
78. Heat Balances & Thermal Efficiency of Kiln Operation
79. HolSpace - IT Tools for Cement Manufacturing
80. Homogenizing Silo
81. Incidents Diagnosis & Recovery
82. Introduction to Chemistry of Cement



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83. Introduction to Corporate Engineering and Summary of its main Activities
84. Introduction to Firing Systems
85. Kiln & Thermal Efficiency in Cement Plants
86. Kiln Alignment
87. Kiln and Cooler Safe Operation
88. Kiln Bearings
89. Kiln Control and Operation
90. Kiln Crank
91. Kiln Drive
92. Kiln Operation & Process
93. Kiln Refractory Bricks Installation
94. Kiln Shell
95. Kiln Systems
96. Safety in Laboratory Activities
97. Root Cause Failure Analysis in Cement Plant
98. Maintenance Planning & Management in Cement Plants
99. Mass Balance Calculation
100. Material internal Transport
101. Mechanical & Pneumatic
102. Mill Operation and Control
103. Monitoring of Emissions by Raw Material Testing
104. Motors and Variable Speed Drives (VSD) In Cement Plant 64-Applications
105. Separators Operation and Maintenance
106. Operation of Tube Mills
107. Optimization of Composite Cements Clinker Optimization
108. Packing & Dispatch
109. Packing Plant
110. Performance of Portland and Composite Cements
111. Permit to work system training final
112. Physico-Chemistry of Cement
113. Plant Automation & Instrumentation
114. Pollution Central in Cement Plants
115. Practical Course in Chemical & Physical Lab
116. Preblending of Raw Materials
117. Precalciners
118. Preheater
119. Preparation & Handling of Alternative Fuels (AF)
120. Quality Control Concept
121. Quality of Cement
122. Quarrying
123. Radiation Safety Manual Figures
124. Raw Cement Mill Operation & Maintenance
125. Raw Grinding System with VRM
126. Raw Grinding Systems basics
127. Raw Martials Crushing, Blending and Transportation



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128. Raw Materials Mix Design Problems & Solutions
129. Raw Meal Homogenization
130. Refractories - Definition & Classification
131. Refractories in Cement Industry
132. Refractories – Selection Criteria
133. Risk Assessment training material
134. Roller Press Basics
135. Roller bend
136. Rotary Kilns
137. Rotary Kilns & Clinker Cooler Operation & Maintenance
138. Rotary Kilns and Clinker Cooler
139. Rubber Belt Conveyors
140. Safe Handling of Coal & Other Combustible Dusts
141. Safety & Occupational Health in Chemical Labs
142. Safety & Occupational Health in Quality Assurance Labs
143. Safety in Cement Plant
144. Sampling Testing and Quality Assurance in Cement Plant
145. Separating
146. Separator Basics
147. Separator Efficiency
148. Sources and Reduction of NOx Emissions
149. Sources and Reduction of SO2 Emissions
150. Technical Operational Checks & On Job Safety in Cement Plant
151. Tube Mill Dimensioning
152. Typical Incidents
153. Use of Alternative Fuels
154. Use of Grinding Aids
155. Vertical Roller Mill basics
156. Vertical Roller Mill Raw Grinding Systems
157. Vibration Balancing
158. White Cement Manufacturing Technology
159. Working Safely With Chemicals
160. X-Ray Fluorescence Analysis.

١٦١. دورة تأهيل مسؤول مباني للأفران وأبراج التسخين
١٦٢. دورة تأهيل فنيين مواقع الأفران
١٦٣. دورة تأهيل فنيين مواقع طواحين الخام الرأسية
١٦٤. دورة تأهيل فنيين مواقع طواحين الأسمنت الدوارة
١٦٥. دورة تأهيل فنيين مواقع تعبئة الأسمنت
١٦٦. دورة تأهيل فنيين مواقع الكسارات للخامات
١٦٧. دورة تأهيل فنيين مواقع التشوين للخامات الأولية (الحجر الجيري، الطفلة / المارل، الرمل، أكسيد الحديد، الجبس)