



مكتب المستشار الوطني  
NATIONAL CONSULTING BUREAU

NCB Training Courses

For

**POWER INDUSTRY**

Generation

Transmission

Distribution

Deregulation

Instrumentation & Control

Safety & Environment

New & Renewable Energy

القاهرة، جمهورية مصر العربية

هاتف: 24010783 / 24010746 (+202)

فاكس: 22629397 (+202)

بريد الكتروني: wahibncb@link.net

ص.ب 5753 هليوبوليس غرب - القاهرة

ابوظبي، الامارات العربية المتحدة

هاتف: 26658200 (+971)

فاكس: 26653303 (+971)

بريد الكتروني: natconsl@emirates.net.ae

ص.ب 26356 ابوظبي - ا.ع.م.

الكويت

هاتف: 2464794 / 2416273 (+965)

فاكس: 2464796 (+965)

بريد الكتروني: ncbwahib@qualitynet.net

ص.ب 5092 الصفاة 13051 الكويت

يمكنكم  
الاتصال بنا  
عن طريق  
أحد مكاتبنا  
التالية:





List of **NCB** Power Generation Courses

S.N	Course Title
1	Steam Power Plant ( Introduction )
2	Operation & Control Of Steam Power Plant ( Basic )
3	Operation & Control Of Steam Power Plant ( Advanced )
4	Maintenance Of Boiler & Auxiliaries
5	Steam Turbine Operation & Maintenance
6	Pumps & Valves Maintenance
7	Steam Power Plant Auxiliaries
8	Operation & Control Of Gas Power Plant ( Basic )
9	Operation & Control Of Gas Power Plant ( Advanced )
10	Combined Cycle Power Plant
11	Power Plant Water Treatment & Analysis
12	Operation & Maintenance Of Generators
13	Repair & Rewinding Of Electrical Motors
14	Maintenance Of Instruments & Controls System Of Power Plants
15	Operation & Calibration Of Hydraulic & Pneumatic Instruments
16	Power Plant Protection & Instrumentation
17	Generator Protection
18	Sea Water Chlorination Units
19	Multistage Flash Evaporation Plants (MSF)
20	Automatic Voltage Regulator
21	Boiler Efficiency Improvement
22	Heat Recovery Steam Generation (HRSG)
23	Power Plant Simulator Training
24	Diesel Generators Sets
25	Black Startup & Emergency Shutdown
26	Power Generation Planning & Control
27	Metallurgy & Corrosion Control in Power Plants
28	Power Plant Program Of New Engineers
29	Effective Management Of Power Plants
30	Utility / Industry Environment Management





List of **NCB** Power Transmission Courses

S.N	Course Title
1	Instrument Transforms & Power Measurement
2	Fundamentals of protection
3	Substation Metering Instruments
4	Substation Protection
5	High Voltage Line Protection
6	Hathaway 16/32 Digital Fault recorder
7	Power Transformers
8	Gas Analysis of transformers Oil
9	On-Load Transformer Tap Changer Maintenance
10	Gas Insulated Switchgear
11	SF6 Circuit- breaker
12	Substations Auxiliary Systems
13	Substations Auxiliary Systems ( Advanced )
14	Substation Electrical Control Circuits
15	Power System Operation
16	Maintenance of Low Tension Substation Equipment
17	Maintenance of Transformers And Circuit Breakers
18	Operation & Maintenance of low voltage network
19	Cable Jointing
20	Basic Line Maintenance (BLM)
21	Light Maintenance of live lines
22	Heavy Maintenance of live lines
23	Network program for New Engineers
24	Effective Management of Networks
25	GIS Information System for Power Transmission
26	Commission of Transmission Lines for Engineers
27	High Voltage Line Protection





List of **NCB** Power Distribution Courses

S.N	Course Title
1	Electric Power Quality
2	Electric power losses
3	Economic Operation of Power System & Automatic Load Dispatch
4	Power System Stability
5	Operation and Control of Interconnected Power Systems & SCADA
6	Load Frequency Control, Load Shedding & Static Frequency Relay
7	Lighting Projects Design & Commissioning
8	Interconnected Power Systems
9	Power Systems Planning, Reliability & Security
10	Primary & Secondary Substations
11	Harmonics in Electric Power System
12	Power Factor Improvement
13	Automated Meter Reading
14	Buildings Power Supply & Wiring
15	Cable Fault Location
16	Power Coordination Systems
17	Electrical Measurements & Testing Instruments
18	Electric Motors & Emergency Generators
19	Uninterrupted Power Supply Systems
20	Reading & Interpretation of Electrical Engineering Drawings
21	IEEE Codes & Standards for Electrical Installation
22	Feeder Identification & Cable Tracing
23	Cable Jointing Techniques (series of courses)
24	Electrical Installations in Buildings

**NCB** Deregulation & Power Management Courses

S.N	Course Title
1	Competitive Electricity Markets: The Deregulation
2	Electricity Services Pricing & Tariffs
3	Performance Assessment of Electricity Utilities
4	Electricity Supply, Forecasting, Design & Planning
5	Electricity Distribution Optimization & Protection
6	Cost Systems for Power Distribution





### List of **NCB** Power Instrumentation and Control Courses

S.N	Course Title
1	Power Electronics Principles
2	Practical Electronics (Advanced )
3	Automatic Control Using Analog & Digital Systems
4	Digital Electronic Circuits ( Basic )
5	Digital Electronic Circuits ( Advanced )
6	Operation of Control Centers (SCADA)
7	Power System Communication
8	Remote Terminal Unit (RTU)
9	Microprocessor Concepts and Applications
10	Microwave Technology
11	Power Line Carrier
12	Design & Establishing printed circuit
13	Control System of Electrical Motors
14	Programmable logic Control (PLC)
15	Fundamental of Fiber Optic Communications
16	Advanced Optical Fiber Communications
17	Principles of Pleisynchronous & Synchronous Digital Hierarchy

### **NCB** Electrical & Electronics Refresher Courses

S.N	Course Title
1	Electrical Engineering Principles Review
2	Electrical Standards & Codes
3	Reading & Interpretation of Electrical Engineering
4	Electronics Applications in Electrical Industry
5	Electrical Measurement Instruments
6	Digital Electronics





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