



CONSTRUCTION

ENGINEERING

OIL & GAS

ARCHITECTURE



ELECTRICAL

MECHANICAL

HEALTH & SAFETY

# TECHNICAL GUIDE



### عن كواترو

يعد مركز كواترو للتدريب شركة رائدة في مجال تقديم خدمات الاستشارات والتدريب في دولة الامارات تأسس في عام 1999 ومركزه في ابوظبي عاصمة دولة الامارات العربية المتحدة ويختص بإعطاء الدورات الادارية واللغات دورات الكمبيوتر ودورات الصحة والسلامة المهنية من قبل كادر تدريسي مؤهل لتخريج متدربين بدرجة عالية من الإتقان، ويقدم خدماته لمؤسسات النفط الوطنية والعالمية، والدوائر الحكومية وشركات القطاع الخاص والافراد.

### About Quattro

**Quattro** ESTABLISHED IN 1999 IN ABU DHABI, IT'S SPECIALIZED IN ADMINISTRATIVE, LANGUAGE COMPUTER, MEDICAL AND OCCUPATIONAL HEALTH AND SAFETY THROUGH QUALIFIED TEACHING STAFF TO GRADUATE TRAINEES WITH HIGH DEGREE OF PERFECTION. NOTE THAT THE CENTER HAS BEEN SPECIALIZED IN OFFERING SERVICES FOR THE NATIONAL & INTERNATIONAL OIL ORGANIZATIONS, GOVERNMENTAL IN DEPARTMENT AND COMPANIES AND INDIVIDUALS AS WELL.

### رؤيتنا

تكون لنا الريادة في مجال التعليم في منطقة الشرق الأوسط أمليين الوصول إلى مكانة معترف بها دولياً

### Vision

TO BECOME PIONEERS IN THE CONTINUOUS EDUCATION TRAINING FIELD IN THE MIDDLE EAST

### رسالتنا

- نسعى بإلحاق الخبرات العملية إلى المستوى الابداعي والابتكاري ورفع كفاءة الادارة والموارد البشرية كي تتواكب مع المتغيرات العالمية وتحقق النجاح والريادة والتميز في اعمالها.
- رفع الاداء في شتى مجالات التعليمية والتدريبية وتنمية وتدريب العناصر البشرية لرفع قدراتهم الانتاجية والمساهمة في فتح الاسواق الاستثمارية للأفراد من خلال تدريبهم على إدارة المشروعات الصغيرة .
- نلبي احتياجات سوق العمل من خلال الاستفادة من الميزة التنافسية وأفضل الممارسات العالمية للتعليم. وطالب يمتلك قيماً ومعارف ومفاهيم ومهارات تلبي احتياجاته الفردية وتحقق أهداف التنمية والتطوير في دولة الإمارات العربية المتحدة.

### Our mission

-WE SEEK TO EXPERIENCE THE LEVEL OF INNOVATION AND CREATIVITY AND INCREASE THE EFFICIENCY OF MANAGEMENT AND HUMAN RESOURCES IN ORDER TO COPE WITH GLOBAL CHANGES AND ACHIEVE SUCCESS, LEADERSHIP AND EXCELLENCE IN OUR WORK.

-RAISING PERFORMANCE IN VARIOUS AREAS OF EDUCATION AND TRAINING AND HUMAN RESOURCES DEVELOPMENT AND TRAINING TO RAISE THEIR PRODUCTIVITY AND CONTRIBUTE TO OPEN MARKETS TO INVESTMENT BY TRAINING THEM TO MANAGE SMALL PROJECTS.

-MEET THE NEEDS OF THE LABOUR MARKET BY TAKING ADVANTAGE OF THE COMPETITIVE ADVANTAGE AND GLOBAL BEST PRACTICES FOR EDUCATION. STUDENTS HAVE VALUABLE KNOWLEDGE AND CONCEPTS AND SKILLS TO MEET THEIR INDIVIDUAL NEEDS AND ACHIEVE THE GOALS OF DEVELOPMENT IN U.A.E..

### قيمنا

الصدق والأمانة والجودة والتميز لخدمة عملائنا.

### Our value:

ONESTY, INTEGRITY, QUALITY AND EXCELLENCE TO OUR CUSTOMERS.

- المركز معتمد من الهيئة الوطنية للمؤهلات الوطنية (NQA) 👍
- المركز معتمد من مركز ابوظبي للتعليم والتدريب التقني والمهني (ACTVET) 👍
- المركز حاصل على شهادة الايزو في تطبيق معايير الجودة العالمية ISO 9001:2015 👍
- المركز معتمد من شركة مايكروسوفت العالمية. 👍
- المركز معتمد من المعهد العالمي لإدارة المشاريع الاحترافية المتقدمة (PMI) لجميع دورات إدارة المشاريع. 👍
- المركز معتمد من منظمة التوفل العالمية والكثير من امتحانات اللغات العالمية الأخرى. 👍
- المركز معتمد من منظمة اليونسكو ومؤسسة الـ (ICDL - ECDL). 👍
- المركز معتمد من اكبر منظمة للتدريب في العالم PROMETRIC 👍
- المركز معتمد من اكبر منظمة للتدريب في العالم Pearson VUE 👍
- المركز معتمد من اكبر الجامعات العريقة في بريطانيا . 👍
- IAO 👍
- الكادر التدريسي مؤهل بشكل كبير في مجال اختصاصاتهم . 👍
- المركز مجهز بأحدث الوسائل التعليمية ويحتوي على قاعات كبيرة وجميع الأجهزة موصولة بواسطة شبكة سريعة وموصولة بالإنترنت. 👍

## What's distinguishing Quattro Training Center "Our Accreditations"

- 👍 CERTIFIED CENTER FROM NATIONAL QUALIFICATIONS AUTHORITY (NQA )
- 👍 CERTIFIED CENTER FROM "ABU DHABI VOCATIONAL AND TECHNICAL TRAINING CENTER" ACTVET"
- 👍 THE CENTER HOLDS THE ISO:9001-2015
- 👍 CERTIFIED CENTER FOR ICDL-ECDL FROM UNESCO
- 👍 AUTHORIZED BY PROJECTS MANAGEMENT INSTITUTE (PMI)FOR ALL (PMP) COURSES
- 👍 AUTHORIZED TESTING CENTER FOR TOEFL IBT & LASTS OF OTHER LANGUAGES TESTS.
- 👍 AUTHORIZED FROM THE LARGEST TRAINING ORGANIZATION IN THE WORLD PROMETRIC.
- 👍 AUTHORIZED FROM PEARSON VUE
- 👍 AUTHORIZED FROM THE LARGEST ANCIENT UNIVERSITIES IN ENGLAND.
- 👍 A CERTIFIED CENTER FROM THE LARGEST INTERNATIONAL ACCREDITATION ORGANIZATION FOR (ACCREDITATION )THE EDUCATIONAL INSTITUTIONS (IAO)
- 👍 THE ACADEMIC STAFF IS HIGHLY QUALIFIED IN THEIR FIELDS.
- 👍 THE CENTER IS EQUIPPED WITH MODERN TECHNOLOGY & SPACIOUS LECTURE HALLS &ALL ITS DEVICES ARE CONNECTED WITH HIGH-SPEED INTERNET LINES

### خدماتنا الاستشارية للعديد من المؤسسات الحكومية والوزارات والشركات في القطاعات التالية:

- التخطيط الاستراتيجي
- تطوير القيادات واستشراف المستقبل
- ادارة المشاريع "Project Management Organizing" PMO
- ادارة العمليات
- نظم ادارة الموارد البشرية
- ادارة وتقييم الاداء
- ادارة المعرفة
- ادارة التغيير والتحول المؤسسي - وفقاً لمتطلبات برامج التميز وأفضل الممارسات العالمية
- نظم ادارة الجودة والتميز المؤسسي
- منظومة الجيل الرابع للتميز الحكومي

Key areas of consultancy specific to Quattro Consulting and Training include, but are not limited to development and/or renewal of the following:

- STRATEGIC AND OPERATIONAL PLANNING
- PROJECT MANAGEMENT CONSULTING
- QUALITY MANAGEMENT SYSTEMS
- THE STRATEGIC MEASUREMENT SYSTEM
- STRATEGIC STEP-BY-STEP SOLUTIONS
- TRAINING SYSTEM DESIGN & LEARNING DEVELOPMENT AND MANAGEMENT SYSTEMS
- PROJECT ADMINISTRATION/MANAGEMENT
- CHANGE MANAGEMENT AND INSTITUTIONAL TRANSFORMATION - IN ACCORDANCE WITH THE REQUIREMENTS OF EXCELLENCE PROGRAMS AND GLOBAL BEST PRACTICES
- QUALITY MANAGEMENT SYSTEMS AND INSTITUTIONAL EXCELLENCE
- FOURTH GENERATION SYSTEM OF GOVERNMENT EXCELLENCE

كما نسعى دائماً في كواترو لتطبيق أعلى درجات الجودة لتحقيق أهدافها . حيث أن جميع مقترحات وآراء عملائنا عن كيفية أداء الخدمات الاستشارية والأنشطة التدريبية تؤخذ بعين الاعتبار وذلك بتوفير جميع أنواع المساعدة ابتداءً من لحظة بداية التعاون.

وتعزيزاً للفلسفة القائلة بأن الاستثمار في المورد البشري يمثل الركيزة الأساسية للتميز والتطور المستمر فإن كواترو تطبق أحدث الأساليب التدريبية والتي تشمل على:

- التدريب على رأس العمل - On- Job - Training .
- التدريب الداخلي - In- House- Training .
- البرامج التدريبية و الدورات التدريبية القصيرة المعدة ضمن خطتنا لعام 2013 Training Plan مسبقاً و المدرجة بخطة التدريب.
- البرامج والدورات التدريبية التعاقدية والتي يتم تنفيذها Customized Training Solutions طبقاً للاحتياجات التدريبية

# Our Training Plan

Technical  
Course



Non  
Technical  
Course

## Technical Training Plan Guide

**Electrical Power Engineering**

(ELC,EE &E)

**Civil & Construction**

**Mechanical & Utility Engineering**

(MUE)

**Health, safety Environment & security Management**

**Water & Waste Water Treatment Engineering**

(WT)

**Drilling & Reservoir Engineering**

(DE & RE)

**Instrumentation and Control Engineering**

(CI)

**Maintenance Engineering**

(ME)

**Welding Engineering**

(WE)

**Process production and chemical engineering**

(PPCE)

# Electrical Power Engineering

Symbol	Program
EI 112	Practical Distribution Transformers - Operation And Maintenance
EI283	HV Motors & Transformers: Design, Operations & Trouble-Shooting
EI 2020	Electricity Wiring Regulations Course E1
EI 219	Basic Electrical And Instrumentation Design
EE 102	Variable Speed Drives (VSD)
EI0078	Test Equipment And Link-Cable Testing
EI2012	Advanced Operation & Maintenance Of Circuit Breakers & Switchgears
EI 9808	Motors & Variable Speed Drives: Selection, Applications, Operation, Diagnostic Testing, Protection, Control, Troubleshooting And Maintenance
EI5101	Dcs simulation program
EE1518	Power System Protective Relaying
EE-686	Electrical Maintenance, Testing, Inspection And Risk Assessment
EI1037	IEEE Standards For Installations & Inspection Procedures Of Electrical Wiring
EE5408	Load Forecasting And System Upgrade
EI 107	Arc Flash Analysis And Prevention Techniques
EI1218	Combined Cycle Power Plant
EI11939	Electrical Control & Monitoring System (ECMS)
EI0705	ARC Flash Electrical Safety NFPA 70E
ELC 55	Compressor Control & Protection
EEC 778	Certified High Voltage Electrical Safety (Osha, Nfpa & En Standards)
EE 336	Hv Operational Safety
EE 556	Industrial Data Communications & Telecommunications
EI8852	Practical Fiber-Optics Technology
EE8063	Electric Motor Testing, Operation, Maintenance, Protection & Troubleshooting
EE1963	Generator Operation, Maintenance, Control, Testing & Troubleshooting
EI696	Transmission Planning And Analysis

EE 089	Power System Quality, Harmonics & Interruptions
EI 645	Power Generation And Distribution
EE0265	Industrial Power Distribution System
EE 125	Hv Outdoor equipment (Cbs, Cts, Vts, Cvts, Disconnecter, Etc.) Design And Testing
EI 5250	Abb Scads -Substation Control & Monitoring System (Scms)- Wi Clusters.
EE 886	Power Systems Troubleshooting
EI7895	Transformer Operation, Maintenance, Diagnosis & Testing
EI678	Electrical Wiring Installation & Inspection Procedure
EE0404	Power Study, Protection And Coordination - Advance
EI 558	Power System Automation (PSA)
EPE8214	Power system blackouts (cause & preventive measures)
EI3001	Circuit breakers & switchgears: operations, maintenance & troubleshooting
EI620	Advanced Power System Analysis In Electrical Networks Using ETAP Power Station
EI 919	Power System Harmonics, Earthling & Power Quality
EI412	Electric Power Distribution System For Industrial Plants
EI415	High And Medium Voltage Substation Design, Testing And Maintenance
IE206	Operation & maintenance of circuit breakers & switchgears
EI 109	Design Of Electric Switchboards (LV & MV) Only Of Design & Engineering Engineers
EI 190	Distribution Overhead Transmission Line Equipment
EI888	Electrical Equipment: Transformers, Inverters, Rectifiers, Uninterruptable Power Systems, Generators
EI 121	Design Of Modern Electrical Distribution Systems
EE540S1	Distribution Network Load
EE540S2	Electrical Load Forecasting, Characteristics And System Upgrade
EE540S3	Load And Energy Management In Industrial Power Distribution Systems
EE540S4	Planning Distribution Systems For Electricity Networks
EL 22578	Electronic Component Repairing
EE660S1	Advanced System Grounding And Preventive Grounding
EE660S2	Electrical Grounding, Bonding, Lightning & Surge Protection
EE660S3	Electrical Maintenance, Grounding & Safety For Modern Electrical Systems
EE660S4	Grounding & Preventive Grounding For Domestic, Industrial, Generation, Transmission & Distribution equipment
EE660S5	Lighting Protection, Safety & Insulation Coordination For Power Systems

EE660S6	Over Voltage In Power System
EI131	Industrial Process Measurement And Control
EI333	Practical Industrial Data Communications & Telecommunications
EI413	Application Of Electrical Science To Power Generation, Transmission And Utilization
EI500	Safety Instrumented Systems (SIS) For Process Industries Using IEC 61511 And IEC 61508
EI030	Practical Distribution System Protection Workshop
EI0027	Electrical faults: causes, analysis, detection & remedies
EI8884	Commissioning, inspecting, testing and maintenance for low, medium and high voltage electric power equipment
EE 977	Electrical earthing system
EI170	Generator Excitation Systems & AVR: Selection, Commissioning, Operation, Maintenance, Testing & Troubleshooting
EI963	HV/MV Substation Design, Installation, Commissioning, Testing, Operation, Control & Maintenance
EE345	Earthing, Bonding, Lightning & Surge Protection Of Electrical & Electronic Systems And Equipment
EE579	Uninterruptable Power Supply Ups- Selection Operation Maintenance
EE121275	Solar Energy System
EI8346	Planning, Justifying, Executing Automation And Control Projects
EE 613	Electrical Noise Effects On Instrumentation Control Equipment
EE890	Power system quality: analysis and problem solving
EI 445	Advanced Operation Of Digital (Smart) Transmitters And Digital Valve Controllers
EE 747	Distribution Network Design & Planning
EE 5012	Electric Motors Testing & Maintenance
EI 666	Plc – Logic Development, Programming & Troubleshooting
EE 610	Plc Commissioning Programming & Troubleshooting
EI5201	Technical Drawings Reading
EE274	Energy Management System (Enms)
EE747	Troubleshooting Instrumentation And Control Systems
EE884	Smart Grids & Energy Managements Systems
EE 678	Plc & Scads For Automation & Process Control
EE963	Liquid & Gas Flow metering & Meter Proving
EI 66	Introduction To Exciter And Automatic Voltage Regulator (Avr)
EI 4412	Introduction To Industrial Automation And Control



EI 519	Generator Operations: Maintenance, Control, Testing & Troubleshooting, Design Of Switch Boards,(Lv & M
EE3172	Renewable Energy, Solar Power Design, Installation And Maintenance
EI508	UPS & Battery Design, Operation, Maintenance & Troubleshooting
EI250	Cables Testing And Fault Location
EI 020	Improving Operational Efficiency Of ESP
EI 145	Advanced Variable Speed Drives
EE0500	Electric power substation: maintenance, grounding & safety
ELE059	Electrical installation techniques, testing, handover, operation and maintenance
EI419	Commissioning And Troubleshooting Control Systems
EE 0108	Troubleshooting & Maintenance Of Power Distribution Equipment
EE 140	Electric Power System Basics For The Nonelectrical Professional
EI201	Practical Operation, Maintenance & Testing Of Diesel Power Generation Plants
EI405	Earthing Of Utility And Industrial Distribution System
EI 103	Practical Grounding, Bonding, Shielding And Surge Protection
EI800	Advanced Generator Maintenance
EI811	Combustion Control System
EI 120	Troubleshooting Of Electrical Equipment & Control Systems
EI777	Electric Distribution System Equipment Preventive Maintenance (EPM) & Engineering Principles
EI 111	Electrical Equipment In Hazardous
EE 4400	Electrical Engineering Practices For Facilities Engineer
EI326	Generator Excitation Systems: Design, Commissioning, Operation, Maintenance, Performance Analysis, Testing, Tuning, Repair & troubleshooting
IE0011	Synchronous Digital Hierarchy (SDH) & Dense Wavelength Division Multiplexing (DWDM)
EI0103	Electric distribution system equipment: transformers, switchgears, circuit breakers, relays, capacitors, surge arresters, cables & meters: operation, inspection, testing, evaluation, maintenance & safety
EI 660	Diesel Power Generating Maintenance & Troubleshooting
EI2265	Overhead Lines, Maintenance & Construction
EL 568	Basic Electrical Control Circuits
EI0601	Electrical Hazard, Risks & Emergency Shutdown Systems
EI203	Electrical Control Circuits & Equipment: Applications & Troubleshooting (Practical Approach)
EE059	Circuit Breakers & Switchgears: Testing, Commissioning, Maintenance, Design, Repair &

Troubleshooting (LV, MV, HV & EHV)

EI5054

DC Power Plant, UPS & Batteries

# Electrical Engineering

Quattro Training Center

# Mechanical & Utility Engineering

Symbol	Program's Name
MUE01	Piping and Pipeline Design and Processing
MUE02	Piping & Valves: Design, Construction, Operation & Integrity
MUE03	Pipes & Piping Technology
MUE04	Practical Pump Technology: Selection, Operation & Maintenance
MUE05	Pipelines Design
MUE06	Pipeline & Piping Maintenance and Rehabilitation
MUE07	Pipeline Operation and Maintenance
MUE08	Pipeline and Piping Inspection, Maintenance and Integrity Assessment
MUE09	Mechanical Engineering: Design, Selection, Installation & Commissioning of Mechanical Equipment
MUE10	Mechanical Failure Analysis
MUE11	Mechanical Seals: Designs Application Selection Installation Troubleshooting and Maintenance
MUE12	Mechanical Equipment: Compressor, Pumps, Motors and Variable Speed Drive
MUE13	Control & Operations of Industrial Gas Turbines
MUE14	Power Plant Performance, Efficiency & Optimization
MUE15	Gas Turbine Operations
MUE16	Piping Vibration Analysis & Practical Engineering Solutions
MUE17	Gas Turbines: Operation and Performance
MUE18	Gas Turbines & Generators: Troubleshooting, Maintenance & Inspection
MUE19	Pumps And Compressors : Operation , maintenance & Troubleshooting
MUE20	Fundamentals of Heating, Ventilation and Cooling Systems for Engineers
MUE21	Boiler & Steam Generation System
MUE22	Fuel Gas Compressors
MUE23	Turbocharger Overhauling

MUE01	Blowers and Turbochargers
MUE02	Steam Turbine Maintenance
MUE03	Steam Turbine Operation
MUE04	Advanced Steam Turbine Maintenance for Engineers
MUE05	Applied Heat Transfer Engineering
MUE06	Practical Pump & Valve Technology: Selection, Operation, Control, Maintenance & Troubleshooting
MUE07	Turbo Expander Operation, Performance, Maintenance & Troubleshooting
MUE08	Compressor & Turbo Expander Operation & Troubleshooting
MUE09	Gas Turbine Maintenance
MUE10	Gas Turbine Operation, Maintenance & Protection
MUE11	Fault Finding Techniques
MUE12	Diesel Engine Maintenance & Troubleshooting
MUE13	Diesel Engine & Crane Maintenance
MUE14	Basics of Gas Turbine
MUE15	Gas Turbine
MUE16	Valve Maintenance
MUE17	Commissioning & Start-up of Boilers
MUE18	Fuels & Combustion
MUE19	Gas Transmission Operations
MUE20	Advanced Casing and Tubing Design
MUE21	Statutory Inspection of Pressure Vessels Implementation Integration and Management
MUE22	Failure Prevention and Repairs to Static Process Equipment and Piping



# Health, safety Environment & security Management

Symbol	Program's Name
HSE01	Risk and Hazard on Rig Operation
HSE02	Drinking Water Safety Plan
HSE03	Oil and Gas HSE Regulations and Advanced HSE for Senior Managers
HSE04	Storage, Handling & Safe Use of Chemicals and Hazardous Materials
HSE05	Safe Handling of Propylene Oxide and Ethylene Oxide
HSE06	Pollution Control in Process Industry
HSE07	Personal Protective equipment
HSE08	Process Safety and Hazard Analysis
HSE09	Advanced Incident Investigation
HSE10	Occupational Health & Safety
HSE11	Air Quality in the Environment
HSE12	Fall Protection
HSE13	Gas Plant Safety
HSE14	Safety in Industrial Plants
HSE15	Emergency Planning for Crisis
HSE16	Safety Management
HSE17	Hazardous Waste Management
HSE18	Radiation: Sources, Detection Protection & Safety and waste management
HSE19	Hazards of Chemical Handling
HSE20	Hazardous Material Awareness and Operation
HSE21	Chemical Spills, Safety Precautions & Response Action Plan
HSE22	Fire Truck Operation
HSE23	Handling & Inspection of Hazardous Scrap Materials
HSE24	Emergency Response Planning and Crisis Management

HSE25	Safety Audits & Site Inspection
HSE26	Dangerous Gas Monitoring
HSE27	Working at Heights
HSE28	Hazard Identification and Assessment
HSE29	Marine Risk Assessment
HSE30	Wildlife Hazard and Prevention Management
HSE31	Basic Fire Fighting
HSE32	Fire Fighting & Rescue in Power Plants
HSE33	Advanced Techniques in Safety & Fire
HSE34	Fire Fighting in Onshore Oil/Gas Fields
HSE35	Solid Waste Recycling
HSE36	Safety Awareness in Petrochemical plants
HSE37	Oil Spill Prevention & Control
HSE38	Environmental Legislation, Safety & Communication
HSE39	Air Pollution Control and Modeling in Petrochemical Industry
HSE40	Noise Pollution Controls in Public and Working Environment
HSE41	Treatment of Noxious Gases & Solid Wastes
HSE42	Water Pollutants and their Impact on the Environment
HSE43	Hazardous and Non Hazardous Waste Management in Oil & Gas Industrial
HSE44	Lubrication and Predictive Maintenance
HSE45	Maintenance & Inspection of Utility Piping Network
HSE46	Environmental awareness in industrial plants



# Instrumentation and Control Engineering

Symbol	Program's Name
IC01	Process Measurement & Control and Control Valves
IC02	Advanced Process Control for Engineers & Technicians
IC03	Boiler Control and Instrumentation for Engineers & Technicians
IC04	Control Valve Types, Function, Selection and Maintenance
IC05	Instrumentation for Non-Instrument Engineers
IC06	Variable Frequency Drives
IC07	Troubleshooting of Data Acquisition & SCADA Systems for Engineers & Technicians
IC08	Fundamentals of Programmable Logic Controllers (PLCs)
IC09	Hazardous Areas Equipment for Engineers & Technicians
IC10	Process Instrumentation
IC11	Industrial Flow Measurement for Engineers & Technicians
IC12	Servicing and Troubleshooting Field Instruments Maintenance, Instrumentation & Control
IC13	SCADA & Communications Standards
IC14	Troubleshooting PLCs for Automation and Process Control
IC15	Process Control for Engineers & Technicians
IC16	Process Measurement & Control and Control Valves
IC17	Advanced Process Control for Engineers & Technicians
IC18	Boiler Control and Instrumentation for Engineers & Technicians
IC19	Control Valve Types, Function, Selection and Maintenance
IC20	Instrumentation for Non-Instrument Engineers
IC21	Variable Frequency Drives
IC22	Troubleshooting of Data Acquisition & SCADA Systems for Engineers & Technicians
IC23	Fundamentals of Programmable Logic Controllers (PLCs)
IC24	Hazardous Areas Equipment for Engineers & Technicians
IC25	Process Instrumentation

IC26

Troubleshooting PLCs for Automation and Process Control



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IC29

Tuning of Industrial Control Loops for Engineers & Technicians

IC30

Ultrasonic Flowmeters for Gas Measurement

IC31

Programmable Logic Controllers (PLCs) and SCADA Systems

IC32

Instrumentation & Process Control – Safety System

IC33

Intrinsic Safety, Galvanic Isolation and Zener Barriers Technology & Applications

IC34

Safety Lifecycle Management in the Process Industries

IC35

Fire & Gas Detection and Alarm System

IC36

Measurement and Control of Liquid level

IC37

Configuring and Testing Smart Field Devices

IC38

Fundamentals of Fieldbus Technology in Industrial Automation

IC39

Industrial Process Measurement and Control

IC40

Planning, Justifying, and Executing Automation and Control Projects

IC41

Process Control for Engineers & Technicians

IC42

Control Valve & SD Valve Maintenance & Troubleshooting

IC43

DCS Yokogawa

IC44

Advanced Distributed Control System (DCS)

IC45

Emergency Preparedness & Response Procedure

IC46

Instrument Multi Task

IC47

Oil and Gas Measurements

IC48

Practical Safety Instrumentation & Emergency Shutdown Systems for Process Industries

IC49

Process Measurement & Control Technology

IC50

PLC Overview, Maintenance AND Troubleshooting



IC51	Analytical Instrumentation in On-line Applications
IC52	Servicing and Troubleshooting Field Instruments Maintenance, Instrumentation & Control
IC53	Servicing and Troubleshooting Field Instruments Maintenance, Instrumentation & Control
IC54	Industrial Flow Measurement for Engineers & Technicians
IC55	Process Measurement & Control Technology
IC56	Practical Process Instrumentation & Automatic Control



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# Drilling & Reservoir Engineering



Symbol	Program's Name
DE01	Basic drilling technology
DE02	Drilling and Completion Technology
DE03	Drilling Rig Control and Operation
DE04	Advanced Drilling Technology
DE05	Drilling Project and Risk Management
DE06	Drilling & Completion Technology
DE07	Advance Drilling Fluids & Advanced Cementing
DE08	Basic Drilling Engineering
DE09	Drilling Practice School For New Engineers
DE10	Advanced Drilling Rig Inspection & Maintenance
DE11	Inspection and Audits for Drilling Rigs
DE12	Practical Drill stem Test (DST) Interpretation
DE13	Drilling Rig Inspection & Maintenance
DE14	Advanced Directional Drilling & Fishing Operations
DE15	Marine Tensioning & Drilling Compensation
DE16	Progressing Cavity Pumps (PCP) Technology
DE17	Gas Lift Design & Optimization Technology
DE18	Drill String Design
DE19	Advance Drilling Fluids & Advanced Cementing
DE20	Primary Cementing
DE21	Advanced Cementing
DE22	Advanced Drilling, Completion & Workovers Fluids
DE23	Advanced Oil Production Optimization
DE24	Drilling Fluids Technology
DE25	Basic Drilling Engineering
DE26	Wellhead Integrity
DE27	Wellhead Operation

DE28	Wellhead Maintenance & Operations
DE29	Offshore Wellhead Operations
DE30	Water Shut Off, Perforation & Stimulation
DE31	Introduction to Casing & Tubing Design
DE32	Gas Lift Foundation
DE33	Gas Lift Valve Changing & Installation
DE34	Gas Lift Operations
DE35	Capillarity in Rocks
DE36	Crude Oil Recovery
DE37	Crude Oil Waxes, Emulsion and Asphaltenes
DE38	Introduction Sedimentology - Applications for Oil Industry
DE39	Under-Balance Drilling Technology
DE40	Marine Tensioning & Drilling Compensation
DE41	Oil Recovery Enhancement Techniques (EOR)
DE42	X-mas Tree & Wellhead Operations, Maintenance & Testing
DE43	Drilling & Production Equipment
DE44	Drilling Project & Risk Management
DE45	Drilling Optimization & Well Planning
DE46	Well Service Supervisor
DE47	Well Engineering: Level 2
DE48	HSE in Work-Over and Drilling Operations
RE01	Carbonate Reservoirs
RE02	Clastic Reservoirs
RE03	Integrating Geoscience Into Carbonate Reservoir Management
RE04	Integrated Carbonate Reservoir Characterization
RE05	Applied Reservoir Engineering & Management: Analysis, Characterization, Simulation, Integration, Statistics & Naturally Fractured
RE06	Naturally Fractured Reservoirs
RE07	Reservoir Appraisal and Development

RE10	Advanced Reservoir Management
RE11	Steam Flood Reservoir Management
RE12	Advanced 3D Reservoir Modelling
RE13	Geo-Statistics in Reservoir Modeling
RE14	Petroleum Reservoir Management
RE15	Characterization of Oil & Gas Reservoirs w/ Neural Network Technology
RE16	Reservoir Surveillance and Management
RE17	Reservoir Cleaning: Planning and Supervision
RE18	Reservoir Simulation
RE19	Reservoir-Simulation by Eclipse Software
RE20	The Screening of Oil Reservoirs for Enhanced Oil Recovery Processes
RE21	Reservoir Seismic Attributes: Analysis and Interpretation
RE22	Integrated Reservoir Characterization & Geo-Engineering Modeling
RE23	Reservoir Characterization: A Multi-Disciplinary Team Approach
RE24	Reservoir Characterization
RE25	Integrated Petro physics for Reservoir Characterization
RE26	Carbonate Reservoirs - Petro physical Characterization
RE27	Deep Water Reservoirs and Turbidities Systems
RE28	Reservoir Geology - Sedimentology, Petrography, Pore Space Evolutions, Architectural Types
RE29	Introductory Sedimentary Petrology; Applications for Petrographic Characterization of Clastic and Carbonate Reservoirs
RE30	Life Cycle Reservoir Management
RE31	Reservoir Fluid Characterization and Management
RE32	Nitrogen Injection Application for Reservoir Pressure Maintenance & Enhanced Oil Recovery
RE33	Naturally Fractured Reservoir Engineering
RE34	Production Logging & Reservoir Monitoring
RE35	Practical Reservoir Engineering
RE36	Basic Reservoir Engineering for Non-Reservoir Engineer

# Maintenance Engineering

Symbol	Program's Name
ME01	Safe Process Operations and Maintenance
ME02	Gas Turbine Engineering
ME03	Mechanical Properties of Engineered Materials
ME04	Practical Plant Failure Analysis: Understanding Machinery Deterioration and Improving Equipment Reliability
ME05	Pipeline Rules of Thumb: A Manual of Quick, Accurate Solutions to Everyday Pipeline Engineering Problems
ME06	Boilers Technology: Design Operation, Maintenance and Troubleshooting
ME07	Maintenance of Instruments & Systems: Practical Trends for Measurement And Control
ME08	Vibration Fundamentals
ME09	Piping and Pipeline Engineering
ME10	Machinery Component Maintenance and Repair : Practical Machinery Management for Process Plants
ME11	Industrial Machinery Repair: Best Maintenance Practices
ME12	HVAC Controls: Operation and Maintenance
ME13	Predictive Maintenance of Pumps Using Condition Monitoring
ME14	Reciprocating Compressors: Operation and Maintenance
ME15	Piping and Valves: Fundamentals for the Water and Wastewater Maintenance Operator
ME16	Machinery Component Maintenance and Repair
ME17	Major Process Equipment Maintenance and Repair : Practical Machinery Management for Process Plants
ME18	Lubrication and Maintenance of Industrial Machinery: Best Practices and Reliability
ME19	Rotating Machinery: Practical Solutions to Unbalance and Misalignment
ME20	Reciprocating Compressors: Operation and Maintenance
ME21	Cranes: Design, Practice, and Maintenance
ME22	Pump: Life Extension

ME23	Centrifugal and Rotary Pumps: Fundamentals with Applications
ME24	Compressor Operation, Practice, and Maintenance
ME25	Ammonia Manufacturing & Process Troubleshooting
ME26	Maintenance Auditing, Benchmarking & Improvement: Certified Maintenance Auditor
ME27	Rotating Equipment (Maintenance Perspective)
ME28	Technology & Maintenance of Machine Components
ME29	Maintenance of Rotating Machines
ME30	Maintenance Leadership & Technology
ME31	Maintenance Management
ME32	Turbomachinery Maintenance & Troubleshooting
ME33	Condition Based Maintenance & Condition Monitoring
ME34	Machinery Root Cause Failure Analysis (RCFA) & Effective Preventive/Predictive Maintenance
ME35	Planning & Scheduling of Maintenance in Power Station-for Engineers
ME36	Maintenance Planning
ME37	Advanced Maintenance Planning & Scheduling
ME38	Maintenance Planning, Scheduling & Cost Control
ME39	Maintenance & Reliability Best Practice
ME40	Maintenance Planning, Estimating and Scheduling
ME41	Lean Maintenance: Methodology, Application & Implementation
ME42	Best Maintenance Practices for Profit Optimization
ME43	Plant Troubleshooting & Maintenance
ME44	Maintenance Safety & Efficiency
ME45	Lubrication and Predictive Maintenance
ME46	Maintenance & Inspection of Utility Piping Network

# Water & Waste Water Treatment Engineering

Symbol	Program's Name
WT01	Water Chemistry and Treatment Applications
WT02	Water Treatment and Oil Well Injection
WT03	Water Pollution Control
WT04	Water & Waste Water Chemical Analysis
WT05	Boiler Water Treatment
WT06	Waste Water Treatment
WT07	Salt Water & Sea Water Chlorination
WT08	Advanced Waste Water Treatment
WT09	Water Audit & Leak Detection
WT10	Oil Field Operations & Water Treatment
WT11	Oily Water Treatment Technology
WT12	Water Flow Measurement & Control
WT13	Introduction to Wastewater Utility
WT14	Water Desalination Technologies & New Development
WT15	Desalination Water Re-Mineralization for Drinking Usage
WT16	Standards Method for Water and Wastewater Analysis
WT17	Mechanism of Salt Removal
WT18	Hydraulic Modelling for Water Network Design
WT19	Optimization & Rehabilitation of Water Treatment Plants
WT20	Principles of Waste Water Management & System Design
WT21	Multi Effect Desalination
WT22	Treating & Handling Oily Water

# Process Production and Chemical Engineering

Symbol	Program's Name
PPCE01	Introduction to Polymers
PPCE02	Oil Production & Processing Facilities
PPCE03	Process Equipment Design
PPCE04	Fertilizer Manufacturing Process Technology
PPCE05	Fundamentals of Process Safety
PPCE06	Gasoline & Diesel Fuel Technology
PPCE07	Hydrocarbon Production
PPCE08	Natural Gas Processing, Gas Sweetening and Sulphur Recovery
PPCE09	Oil & Gas Operations
PPCE10	Petrochemical Fundamentals
PPCE11	Oil & Gas Processing
PPCE12	Gas Conditioning & Processing
PPCE13	Distillation Column Operation, Performance & Troubleshooting
PPCE14	Petroleum Refining Process and Economics for Technical Professionals
PPCE15	Fundamental of Furnace Operation
PPCE16	High Accuracy Oil and Gas Flow Measurement
PPCE17	Corrosion in the Oil and Gas Industry
PPCE18	Fundamentals of Crude Oil Distillation
PPCE19	Oil Movement, Storage & Troubleshooting
PPCE20	Dehydration of Crude Oil
PPCE21	Petroleum Risk and Decision Analysis
PPCE22	Modern Gas Production Operations
PPCE23	Elements of Applied Process Engineering



PPCE24	Heat Transfer and Thermal Design in the Process Industry
PPCE25	Rules of Thumb for Chemical & Process Engineers
PPCE26	Safety in Process Design
PPCE27	Surface Production & Operations
PPCE28	Hydrocarbon Production Operations
PPCE29	Process Engineering Calculations
PPCE30	Lube Oil Additives
PPCE31	Basic Operations Skills
PPCE32	Fundamentals of Natural Gas Processing
PPCE33	Natural Gas Process Equipment Design
PPCE34	Process Engineering Fundamentals
PPCE35	Gas Processing Overview
PPCE36	Basics of Oil Field Operations
PPCE37	Oil Production and Processing Facilities
PPCE38	Chemical Purification and Process Separation
PPCE39	Chemical Engineering Process Design
PPCE40	Chemical Purification and Process Separation
PPCE41	Chemical Process Simulation and Design
PPCE42	Chemical Reaction Engineering Application
PPCE43	Chemical Cleaning in Refineries & Petrochemical Plants
PPCE44	Advanced Chemical Engineering Thermodynamics



# Welding Engineering

Symbol	Program's Name
WE01	Introduction to Welding Engineering
WE02	International Welding Codes and Standards
WE03	Welding For The Non-Welder
WE04	Basic Welding Skills
WE05	Fundamentals of Visual Inspection
WE06	Welding Inspector
WE07	Arc Welding Inspection & Quality Control
WE08	Practical Welding Technology
WE09	Pipeline Welding Practices
WE10	Welding & Fabrication
WE11	Aluminum Welding
WE12	Welding Technology & Blueprint Reading
WE13	Gas Metal Arc Welding
WE14	Practical Welder Training

