

TRAINING CATALOG 2024 - 2025



ELECTRICAL MECHANICAL MANAGEMENT SAFETY

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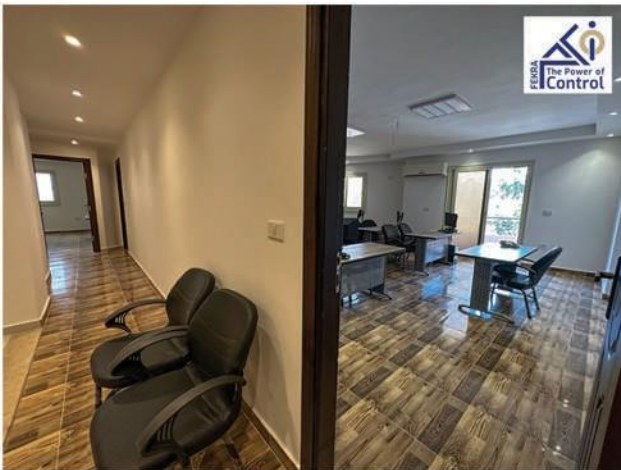
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Our Vision

Quality training for everyone

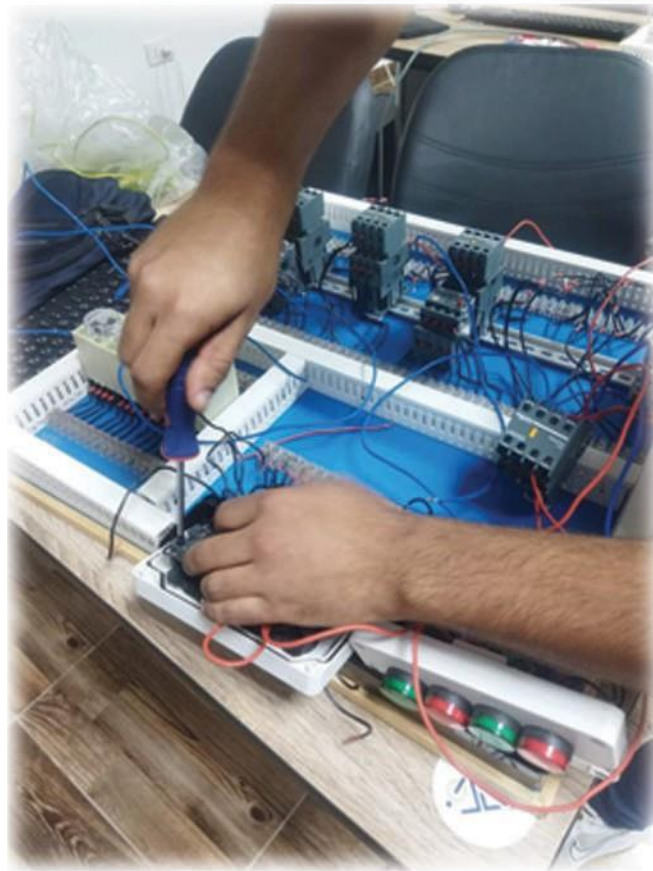


Our Mission

To deliver training according to the high-quality standards of teaching, material, and practices that fulfill and adapt to the practical businesses' requirements in the Market.

Our Activities

Our activities are covering major technical training courses required in the field of electrical, mechanical, and programming engineering needed in the market.



Our Goals

To qualify our trainees for technical competency allowing them to join immediately into the job market at the end of our training programs.

To apply our business model as an example of premium quality service showing the importance of mastering our skills and improving our ability as a nation to compete in the global job market.

To expand our activities and keep them up to date, in order to cover wide range of industrial market requirements, qualifying the largest possible number of candidates with the highest possible qualifications required.



Other Services

Our Institution provides a working space for business meetings, researches, and projects execution, in addition to lecture rooms equipped with all training requirement tools.



The Electrical Courses

SN	The Course Title	The duration	
		Days	Hours
1	Maintenance and Inspection of Electrical and Instrumentation Equipment	5	5
2	Basic Functions of AC Motor Controllers	5	5
3	Power Generations: Operations, Maintenance and Commissioning	5	5
4	Industrial Process Measurement and Control	5	5
5	Integrating and Optimizing SCADA Systems	5	5
6	Instrumented Protective Functions	5	5
7	Instrumentation Diagrams and Symbols	5	5
8	Instrumentation Device Selection and Application	5	5
9	Classic Control	6	24
10	PLC Basic	6	24
11	PLC advanced	6	24
12	HMI & SCADA SYSTEM	6	24
13	Infrastructure and Smart city design	6	24
14	Electric Vehicle Charging Station Design	6	24
15	Embedded system	2/4 months	128
16	Arduino	6	24
17	Hardware Design	2/4 months	105
18	Light Current	6	24

The Mechanical and technical courses

SN	The course title	The duration	
		Days	Hours
1	Fundamentals of power plants	10	60
2	Gas and steam turbines power plants	10	60
3	Combined cycle power plants	5	30
4	Pumps applications: Selection, installation & troubleshooting	5	30
5	Valve technology applications: selection, installation & troubleshooting	5	30
6	Gas turbine failure analysis, investigation & diagnostics	5	30
7	Heat exchangers, types, design, operation and maintenance	5	30
8	Fans and air compressors: Operation, maintenance & troubleshooting	10	60
9	Machinery vibration monitoring, measurement & predictive maintenance	10	60
10	Air and gas heaters	5	30
11	Tube failure	5	30
12	Boiler technology: Types, construction & operation	5	30
13	Quality control in power plants	5	30
14	Balance of plants (BOP)	10	60
15	Economic operation of power plants	5	30
16	Equipment performance analysis	5	30
17	Machinery bearings, lubrication & reliability	5	30
18	Rotating equipment condition monitoring & care management	5	30
19	Mechanical seals applications for rotating machinery	5	30
20	Diesel engine generator: Operation, maintenance & troubleshooting	5	30
21	Hydraulic & pneumatic system applications & fault diagnosis	5	30
22	Heat rate & auxiliary power consumption: Plant performance improvement	5	30

The Management and Administration courses

SN	The course title	The duration	
		Days	Hours
1	Leadership and motivation	10	60
2	Strategic planning	5	30
3	Project management and business plan	10	60
4	Preparation for project management professional certification (PMP)	5	30
5	Change management	5	30
6	Feasibility studies & project economic financial appraisal	5	30
7	Fundamentals of management	5	30
8	Modern and effective management	10	60
9	Root cause analysis	5	30
10	Work ethics	5	30
11	Advanced procurement and contract management	10	60
12	Contracts, bid evaluation, managing and negotiation with consultants & contractors	10	60
13	Technical report writing	5	30
14	Benchmarking	5	30
15	Risk management	5	30
16	Management control, cost and budget accounting outlines	10	60
17	Administration management and organizational excellence	5	30
18	Team building	5	30
19	Engineering, procurement and construction for turnkey and multipackage contracts	5	30
20	Enhancing management skills: goal setting, planning & organizing	5	30

The safety courses

SN	The course title	The duration	
		Days	Hours
1	Occupational health and safety	5	30
2	Electrical, mechanical and chemical hazards and accidents	10	60
3	The different types of fire: Reasons and precautions	5	30
4	OSHA outreach, policies and legislations in safety	10	60
5	Safety rules in power plants	5	30
6	Emergency and crisis management	5	30
7	Workplace ergonomics, incident investigation and reporting	5	30
8	The message of colors in safety and Personal Protective Equipment (PPE)	5	30
9	Risk assessment and control	5	30
10	Industrial & construction safety and health	5	30
11	Preparation of National Examination Board in Occupational Safety and Health (NEBOSH)	5	30
12	The attitude of authorized employees in workplace & Lockout/Tagout	5	30
13	Maintain personal hygiene standards	5	30
14	Clean and store materials and equipment	5	30

The Petroleum Courses

SN	The Course Title	The duration	
		Days	Hours
1	Gas Conditioning and Processing	5	5
2	Gas Treatment, Conditioning and Liquefaction	5	5
3	Petroleum Refinery Processing	5	5
4	Basic Open Hole Tools	5	5
5	Well Integrity Flow Assurance	5	5
6	Production Logging Interpretation in Techlogy	5	5
7	Hydraulic in Oil and Gas Pipeline	5	5
8	Process Management and Optimization	5	5
9	Applied Reservoir Engineering and Management	5	5
10	Oil Production and Processing Facilities	5	5
11	Geostatistics for Reservoir Characterization	5	5
12	Field Corrosion Control	5	5
13	Gas Condensate Fields Development	5	5
14	Advanced Gas Condensate Reservoir Management	5	5
15	Wellhead and X-Mass Tree	5	5
16	Production Logging and Reservoir Monitoring	5	5
17	Fundamental Pressure-Volume-Temperature (PVT)	5	5
18	Oil field surface facility operations	5	5
19	Oil receiving and separation for operator	5	5
20	Oil Stabilization and Sweetening for operator	5	5
21	Reservoir Fluid Sampling & Analysis Techniques	5	5
22	Blowout Preventer (BOP) Closing Unit and Stack	5	5
23	Water Treatment Technology	5	5
24	Painting Inspection	5	5