AbarSolutions
Petroleum Consultancy

Technical Excellence for Fuel Station: From Data Analysis to Automation, Diagnostics, and Problem-Solving

From 08/02/2026 to 12/02/2026

Carlton Downtown Hotel, Dubai, UAE

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Hawalli - Block 11 – Street 172 - Parcel 013521 – Amar Complex - Floor 1 - Flat 1 - PACI Unit No. 18121758

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Abar Solutions Petroleum Consultancy Invite Your Employee To Participate With Us In Special Training Course As Under Details:

Course Name	Technical Excellence for Fuel Station: From Data Analysis to Automation, Diagnostics, and Problem-Solving				
Lang.	**Period**	**Start**	**End**	**Location**	**Fees**
Bilingual A + E	5 Days	08/02/2026	12/02/2026	Carlton Downtown Hotel, Dubai, UAE	1400 KD
Register your team of 5 or more participants and enjoy a special rate of KWD 950 per participant					

Course Overview:

This intensive five-day program equips fuel station staff with advanced technical, analytical, and operational skills to excel in their daily responsibilities. The course focuses on data analysis, reporting, diagnostic tools, automation systems, time management, effective communication, and systematic problem-solving to ensure optimal fuel station performance, enhanced reliability of equipment, and streamlined operations.

Course Objectives:

By the end of this course, participants will be able to:

- Understand and apply data analysis techniques for operational optimization.
- Prepare comprehensive technical reports for management decisions.
- Utilize measurement and diagnostic tools effectively in field operations.
- Demonstrate knowledge of industrial safety practices relevant to station operations.
- Communicate technical information clearly across different teams.
- Manage time and prioritize tasks efficiently under operational pressures.
- Understand fundamentals of automation and control systems in fuel stations.
- Apply systematic troubleshooting and problem-solving methodologies.

Target Audience:

Fuel Station Staff.

Senior Fuel Station Technicians.

Operations Coordinators.

Aspiring Technical Leads in fuel retail operations.

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Training Methodology:

Interactive instructor-led presentations.

Real-world case studies and operational scenarios.

Hands-on practical sessions using diagnostic tools and sample data.

Group exercises and role plays for communication and decision-making.

Daily knowledge checks and end-of-course assessment.

Organisational Impact:

Implementing this training within your organisation will:

- Improve the operational efficiency of fuel stations.
- Enhance equipment uptime through better diagnostics and troubleshooting.
- Reduce maintenance and operational downtime costs.
- Increase accuracy in reporting and data-driven decision-making.
- Strengthen teamwork and communication among technical staff.
- Build a technically competent supervisory workforce capable of managing modern fuel stations.

Personal Impact:

Participants will gain:

- Advanced technical knowledge of electrical, mechanical, and automation systems.
- Confidence in using measurement and diagnostic tools effectively.
- Strong data analysis and reporting skills for career growth.
- Practical problem-solving and troubleshooting abilities.
- Improved time management and task prioritisation skills.
- Enhanced communication skills to lead technical teams efficiently.

Course Content & Outline:

Day 1 – Data Analysis & Reporting for Fuel Station Operations

- Introduction to data-driven decision-making in fuel stations.
- Key operational data types: volume, flow rates, sales, inventory.
- Tools and software for basic data analysis.
- Interpreting trends and anomalies.
- Preparing professional technical and operational reports.
- Practical exercise: Analyzing sample station data sets.

Day 2 – Measurement & Diagnostic Tools: Application and Practice

- Overview of measurement tools used in fuel stations.
- Electrical measurement tools (multimeters, insulation testers).
- Mechanical measurement tools (pressure gauges, flow meters, calipers).
- Diagnostic techniques for pumps, dispensers, and flow meters.
- Calibration basics and documentation.
- Hands-on practice with measurement and diagnostic equipment.

Day 3 – Industrial Safety Practices and Effective Communication

- Industrial safety standards for equipment handling and maintenance.
- Hazard identification beyond fire safety (electrical, mechanical, ergonomic).
- Communication fundamentals for technical teams.
- Techniques for clear technical reporting and briefing.
- Effective communication in crisis or fault scenarios.
- Role play: Communicating equipment failures and action plans.

Day 4 – Fundamentals of Automation & Control Systems

- Introduction to automation in fuel stations.
- Basic concepts of PLC and automated pump control.
- Control system components: sensors, actuators, controllers.
- Troubleshooting basic automation system faults.
- Future trends: IoT and smart fuel stations overview.
- Group activity: Mapping automation components in station operations.

Day 5 – Problem-Solving, Troubleshooting & Time Management

- Systematic problem-solving frameworks (Root Cause Analysis, Fishbone Diagram).
- Troubleshooting process for electrical and mechanical faults.
- Prioritizing maintenance and operational tasks.
- Time management techniques for staff.
- Integrating learned skills into daily workflows.
- Final group assessment: Diagnosing a simulated station operational issue and presenting solutions.

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Course Agenda:

Technical Excellence for Fuel Station: From Data Analysis to Automation, Diagnostics, and Problem-Solving

Dubai, UAE **From 08/02/2026 To 12/02/2026**

Day	9.00AM To 11.30 PM	30 Minute	12.0 PM To 02.0 PM
SUNDAY	Data Analysis & Reporting for Fuel Station Operations • Introduction to data-driven decision-making in fuel stations. • Key operational data types: volume, flow rates, sales, inventory. • Tools and software for basic data analysis.	Light Break	Data Analysis & Reporting for Fuel Station Operations • Interpreting trends and anomalies. • Preparing professional technical and operational reports. • Practical exercise: Analyzing sample station data sets.
MONDAY	Measurement & Diagnostic Tools: Application and Practice • Overview of measurement tools used in fuel stations. • Electrical measurement tools (multimeters, insulation testers). • Mechanical measurement tools (pressure gauges, flow meters, calipers).		Measurement & Diagnostic Tools: Application and Practice • Diagnostic techniques for pumps, dispensers, and flow meters. • Calibration basics and documentation. • Hands-on practice with measurement and diagnostic equipment.
TUESDAY	Industrial Safety Practices and Effective Communication • Industrial safety standards for equipment handling and maintenance. • Hazard identification beyond fire safety (electrical, mechanical, ergonomic). • Communication fundamentals for technical teams.		Industrial Safety Practices and Effective Communication • Techniques for clear technical reporting and briefing. • Effective communication in crisis or fault scenarios. • Role play: Communicating equipment failures and action plans.
WEDNESDAY	Fundamentals of Automation & Control Systems • Introduction to automation in fuel stations. • Basic concepts of PLC and automated pump control. • Control system components: sensors, actuators, controllers.		Fundamentals of Automation & Control Systems • Troubleshooting basic automation system faults. • Future trends: IoT and smart fuel stations overview. • Group activity: Mapping automation components in station operations.
THURSDAY	Problem-Solving, Troubleshooting & Time Management • Systematic problem-solving frameworks (Root Cause Analysis, Fishbone Diagram). • Troubleshooting process for electrical and mechanical faults. • Prioritizing maintenance and operational tasks.		Problem-Solving, Troubleshooting & Time Management • Time management techniques for staff. • Integrating learned skills into daily workflows. • Final group assessment: Diagnosing a simulated station operational issue and presenting solutions.

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