أدنـوك
ADNOC

ADNOC TECHNICAL ACADEMY

COURSE CATALOGUE

TECHNICAL COURSES

أكاديمية أدنوك الفنية
ADNOC Technical Academy

VISION AND MISSION

Vision

To enable the UAE's sustainable industrial growth by accelerating the region's most promising technical talent.

Mission

We are the leading regional provider of certified industrial training, cultivating the technical skills required to pursue a successful and rewarding career in the energy industry and manufacturing sectors.

CONTACT

For further details about current courses or to discuss the development of tailored courses, please contact the following:

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Location: Google Map

أدنـوك
ADNOC

ADNOC TECHNICAL ACADEMY

TECHNICAL COURSES

A. OPERATOR TRAINING SIMULATOR (OTS)
B. ADNOC PILOT PLANT (APP)
C. SHORT TECHNICAL COURSES
D. OEM / VENDOR SPECIALIZED COURSES

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ADNOC Technical Academy

A. OTS TRAINING COURSES

COURSE BRIEF

ATA provides Operator Training Simulator (OTS) courses that cover knowledge and practice for working in an oil and gas plant. The courses will help learners acquire the relevant skills, competency, and expertise, through up-to-date training methods, well-equipped hi-tech facilities, and experienced trainers.

OTS courses provide a virtual learning experience, to train learners on plant operations ahead of plant startup, shutdown and throughout a plant life cycle. Training provides a real life DCS operational environment and helps learners to develop their operation skills in a safe environment.

WHO CAN ATTEND?
Operators, technicians, supervisors, engineers, fresh graduates, or anyone with relevant experience.

COURSE DELIVERY
ADNOC Technical Academy

TRAINING EQUIPMENT OVERVIEW

- YOKOGAWA Simulator.
- Available Operation facilities:
  1. Well production, Separation, Crude stabilization
  2. Gas Recovery, Compression & Injection
  3. Gas Treatment – Gas Sweetening & Gas Dehydration
  4. Produce water treatment & Injection
  5. Utility units & Flare systems

LIST OF COURSES

YOKOGAWA SIMULATOR TRAINING

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
OTS Level 1 - Introduction	• Classroom • Yokogawa Simulator Lab	4 days	ATA-OTS-OPS-2407	Click here
OTS Level 2 - Intermediate		4 days	ATA-OTS-OPS-2408	Click here
OTS Level 3 - Advanced		4 days	ATA-OTS-OPS-2409	Click here

NOTE: Upon Customer request, above-mentioned OTS courses 'Levels & Duration' can be customized as per training needs and level of participants

B. ADNOC PILOT PLANT TRAINING COURSES

COURSE BRIEF

APP courses provide knowledge of plant process, equipment, functions, and control philosophy. Learners will practice startup & shut down activities in a safe field-like environment.

WHO CAN ATTEND?
Operators, technicians, supervisors, engineers & fresh graduate or anyone with relevant experience.

COURSE DELIVERY
At ATA

TRAINING EQUIPMENT OVERVIEW
ADNOC Pilot Plant (APP) Training has five operating plants:

1. Wellhead
2. Crude Stabilization
3. Gas Sweetening
4. Gas Dehydration
5. Utility

LIST OF COURSES

ADNOC PILOT PLANT COURSES (APP)

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Module 1 - Wellhead Plant	APP with Classroom & DCS	5 days	ATA-APP-OPS-2410	Click here
Module 2 – Crude Stabilization Plant		5 days	ATA-APP-OPS-2411	Click here
Module 3 – Gas Sweetening Plant		5 days	ATA-APP-OPS-2412	Click here
Module 4 – Gas Dehydration Plant		5 days	ATA-APP-OPS-2413	Click here
Module 5 – Utility Plant		5 days	ATA-APP-OPS-2414	Click here

C. ATA SHORT TECHNICAL COURSES

COURSE BRIEF

ATA is committed to provide high quality training that satisfies our end-user's needs and expectations. It ensures learners gain the required competencies and they can carry out their duties safely and productively. ATA technical courses cover knowledge and skills of process operations, electrical, instrument control and mechanical maintenance.

The course content and methodologies go with the most recent standards and trends in oil and gas industry. Courses are delivered by experienced instructors, utilizing the most recent high-tech facilities and equipment.

There is a customer satisfaction feedback system to ensure we meet your training expectations.

COURSE DELIVERY
Training takes place at ADNOC Technical Academy, Al Shawamekh, Abu Dhabi

TARGET GROUP
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

TRAINING FACILITIES
Well-equipped and hi-tech classrooms, workshops, and facilities including PTP, OTS & ADNOC Pilot Plant to demonstrate oil & gas production, separation, gas treatment, and Utility Plant.

LIST OF COURSES

ELECTRICAL MAINTENANCE

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Electrical Equipment Inspection, Testing and Troubleshooting	Classroom & Workshop/APP	3 days	ATA-TEC-ELC-2301	Click here
Basic Electrical and Instrumentation	Classroom	3 days	ATA-TEC-ELC-2302	Click here
Relay Protection Testing and Calibration	Classroom	3 days	ATA-TEC-ELC-2303	Click here
AC Electrical Motor & Drives	Classroom & Workshop/APP	5 days	ATA-TEC-ELC-2401	Click here
Cathodic Protection	Classroom	3 days	ATA-TEC-ELC-2402	Click here
Battey Maintenance & UPS System	Classroom & Workshop/APP	5 days	ATA-TEC-ELC-2403	Click here
Power Transformer Overview	Classroom	5 days	ATA-TEC-ELC-2404	Click here
Motor PM & Testing	Classroom & Workshop	3 days	ATA-TEC-ELC-2405	Click here

NOTE: Upon Customer request, some of the above-mentioned Technical courses 'Delivery Mode' can be customized to Include Practical in 'ATA Workshops' as per training needs and level of participants.

LIST OF COURSES

INSTRUMENTATION & CONTROL MAINTENANCE

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Instrumentation and Control Field Instruments Servicing, Maintenance and Troubleshooting	Classroom	3 days	ATA-TEC-IC-2301	Click here
Basic Instruments for Oil and Gas Industry		2 days	ATA-TEC-IC-2302	Click here
Distributed Control System (DCS) / Industrial Control System (ICS) Operation		5 days	ATA-TEC-IC-2303	Click here
Basics of Process Control		3 days	ATA-TEC-IC-2304	Click here
Basic Process Control and Instrumentation		3 days	ATA-TEC-IC-2304	Click here
Fiscal Flow Metering and Proving System		3 days	ATA-TEC-IC-2305	Click here
Distributed Control System (DCS) Operation, Maintenance and Troubleshooting		5 days	ATA-TEC-IC-2306	Click here
Flow Measurement and Custody Transfer		2 days	ATA-TEC-IC-2307	Click here

NOTE: Upon Customer request, some of the above-mentioned Technical courses 'Delivery Mode' can be customized to Include Practical in 'ATA Workshops' as per training needs and level of participants.

LIST OF COURSES

INSTRUMENTATION & CONTROL MAINTENANCE

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Control Valve Selection & Maintenance	Classroom & Workshop/APP	4 days	ATA-TEC-IC-2401	Click here
Selection of Electrical Equipment for Hazardous Areas	Classroom	3 days	ATA-TEC-IC-2402	Click here
Fundamentals and Troubleshooting of Online Analyzers in Oil & Gas Industry	Classroom	3 days	ATA-TEC-IC-2403	Click here
Programmable Logic Controller Fundamentals and Programming	Classroom & Workshop	3 days	ATA-TEC-IC-2404	Click here
Instrumentation Drawings and Documents	Classroom & Workshop/APP	3 days	ATA-TEC-IC-2405	Click here
Introduction to Process Plant Operation and Instrument Maintenance	Classroom & Workshop/APP	5 days	ATA-TEC-IC-2406	Click here

NOTE: Upon Customer request, some of the above-mentioned Technical courses 'Delivery Mode' can be customized to Include Practical in 'ATA Workshops' as per training needs and level of participants.

LIST OF COURSES

MECHANICAL MAINTENANCE

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Pressure Safety Valves (PSV) Testing and Overhauling	Classroom	3 days	ATA-TEC-MEC-2301	Click here
Centrifugal Pump : Operation, Maintenance and Troubleshooting		5 days	ATA-TEC-MEC-2302	Click here
Centrifugal Compressor : Operations and Maintenance		5 days	ATA-TEC-MEC-2303	Click here
Air Compressors (Air/Gas Reciprocating & Screw Compressors)		3 days	ATA-TEC-MEC-2304	Click here
Alignment (Method and Application)		3 days	ATA-TEC-MEC-2305	Click here
Coupling, Gear Boxes, Bearings and Lubrication and Mechanical Seals		3 days	ATA-TEC-MEC-2306	Click here
Laser Alignment		3 days	ATA-TEC-MEC-2305	Click here
Flowserve Pump: Maintenance and Troubleshooting		5 days	ATA-TEC-MEC-2302	Click here

NOTE: Upon Customer request, some of the above-mentioned Technical courses 'Delivery Mode' can be customized to Include Practical in 'ATA Workshops' as per training needs and level of participants.

LIST OF COURSES

MECHANICAL MAINTENANCE

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Advanced Troubleshooting of Rotating Equipment	Classroom	3 days	ATA-TEC-MEC-2307	Click here
Compressors - Maintenance, Inspection and Overhaul		5 days	ATA-TEC-MEC-2308	Click here
Air Compressor Overhauling (Air/Gas Reciprocating & Screw Compressors)		3 days	ATA-TEC-MEC-2304	Click here
Heat Exchangers: Design, Operation, Maintenance and Repair		5 days	ATA-TEC-MEC-2310	Click here
Pumps and Compressors: Operation, Maintenance and Troubleshooting		5 days	ATA-TEC-MEC-2311	Click here
Anti-Friction Bearing		3 days	ATA-TEC-MEC-2401	Click here
Friction / Plain Bearing		3 days	ATA-TEC-MEC-2402	Click here
Lubrication and Gear Box Overview		3 days	ATA-TEC-MEC-2403	Click here

NOTE: Upon Customer request, some of the above-mentioned Technical courses 'Delivery Mode' can be customized to Include Practical in 'ATA Workshops' as per training needs and level of participants.

LIST OF COURSES

MECHANICAL MAINTENANCE

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Reciprocating Compressor Maintenance	Classroom	5 days	ATA-TEC-MEC-2404	Click here
Mechanical Seals		3 days	ATA-TEC-MEC-2405	Click here
Transmission Components Coupling		3 days	ATA-TEC-MEC-2406	Click here
Types of Valves used in oil and Gas Industry		5 days	ATA-TEC-MEC-2407	Click here

NOTE: Upon Customer request, some of the above-mentioned Technical courses 'Delivery Mode' can be customized to Include Practical in 'ATA Workshops' as per training needs and level of participants.

LIST OF COURSES

PROCESS OPERATIONS

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Storage Tanks	Classroom	3 days	ATA-TEC-OPS-2301	Click here
Gas Compression Operation - Advanced		3 days	ATA-TEC-OPS-2302	Click here
Amine and Gas Dehydration		3 days	ATA-TEC-OPS-2303	Click here
Multi-discipline Process Equipment Maintenance Preparation	Classroom, Workshop/ APP	3 days	ATA-TEC-OPS-2401	Click here
Boiler & Deaerator - Operations Troubleshooting	Classroom	3 days	ATA-TEC-OPS-2402	Click here
Heat Exchangers Design, Operations & Maintenance	Classroom, Workshop/ APP	3 days	ATA-TEC-OPS-2403	Click here
Introduction to Crude Distillation Unit		3 days	ATA-TEC-OPS-2404	Click here
De-Salter Operation		3 days	ATA-TEC-OPS-2405	Click here
Introduction to process plant operation	Classroom / APP	3 days	ATA-TEC-OPS-2406	Click here

D. OEM / VENDOR SPECIALIZED COURSES

COURSE BRIEF

Original Equipment Manufacturer (OEM / Vendor) Specialized Courses provide knowledge & skills of specific plant process, equipment, functions, and control philosophy. Demonstration of operation and maintenance activities will be provided via real Equipment and/or customized training kits designed by the OEM (Vendor).

WHO CAN ATTEND?

Operators, technicians, supervisors, engineers & fresh graduate or anyone with relevant experience.

COURSE DELIVERY

At ATA

TRAINING EQUIPMENT OVERVIEW

- Real Vendor (OEM) Equipment.
- Training Kits designed by Vendor (OEM).

LIST OF COURSES

BAKER HUGHES TRAINING COURSES
(BENTLY NEVADA- CONDITION MONITORING AND RELIABILTY ENGINEERING)

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Fundamentals of Vibration Measurements	Classroom – Vendor Instructor Led	3 days	ATA-VEN-BH-2401	Click here
Transducer Installation and Maintenance		3 days	ATA-VEN-BH-2402	Click here
3500 Operation & Maintenance		3 days	ATA-VEN-BH-2403	Click here
3500 for TSI Applications		2 days	ATA-VEN-BH-2404	Click here
Orbit 60 Monitoring System		3 days	ATA-VEN-BH-2405	Click here
ADRE 408 DSPi/Sxp		3 days	ATA-VEN-BH-2406	Click here
Ranger Pro using System 1		3 days	ATA-VEN-BH-2407	Click here
System 1 For Turbomachinery		3 days	ATA-VEN-BH-2408	Click here

LIST OF COURSES

BAKER HUGHES TRAINING COURSES
(BENTLY NEVADA- CONDITION MONITORING AND RELIABILTY ENGINEERING)

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
System 1 for Portables	Classroom – Vendor Instructor Led	3 days	ATA-VEN-BH-2409	Click here
System 1 Bently Performance		3 days	ATA-VEN-BH-2410	Click here
System 1 Decision Support		2 days	ATA-VEN-BH-2411	Click here
3500 Operation & Maintenance and System 1		5 days	ATA-VEN-BH-2412	Click here
Orbit 60 Monitoring System and System 1		5 days	ATA-VEN-BH-2413	Click here
Machinery Diagnostics Methodology		5 days	ATA-VEN-BH-2414	Click here
Reciprocating compressor condition monitoring & diagnostics		3 days	ATA-VEN-BH-2415	Click here
Applied Diagnostics workshop		5 days	ATA-VEN-BH-2416	Click here

LIST OF COURSES

BAKER HUGHES TRAINING COURSES
(BENTLY NEVADA- CONDITION MONITORING AND RELIABILTY ENGINEERING)

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Advanced field balancing	Classroom – Vendor Instructor Led	5 days	ATA-VEN-BH-2417	Click here
Advanced Machinery Dynamics		5 days	ATA-VEN-BH-2418	Click here
ISO 18436 category I Junior vibration analyst without exam		4 days	ATA-VEN-BH-2419	Click here
ISO 18436 category II Intermediate vibration analyst without exam		5 days	ATA-VEN-BH-2420	Click here
ISO 18436 category III Senior vibration analyst without exam		5 days	ATA-VEN-BH-2421	Click here
ISO 18436 category IV Expert vibration anomaly (52.5 hours videos + 5 days course)		5 days + Videos Hrs	ATA-VEN-BH-2422	Click here
ARP-A : Asset Reliability Practitioner for Reliability Advocate		3 days	ATA-VEN-BH-2423	Click here
ISO 18436-7 CAT I– Infrared Thermography		5 days	ATA-VEN-BH-2424	Click here

LIST OF COURSES

BAKER HUGHES TRAINING COURSES
(BENTLY NEVADA- CONDITION MONITORING AND RELIABILTY ENGINEERING)

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Machine Lubricant Analyst" Level-1	Classroom – Vendor Instructor Led	5 days	ATA-VEN-BH-2425	Click here
Introduction to Machinery Diagnostics (Instrumentation &Electrical)		3 days	ATA-VEN-BH-2426	Click here
Introduction to Machinery Diagnostics (Mechanical)		3 days	ATA-VEN-BH-2427	Click here

LIST OF COURSES

EMERSON TRAINING COURSES (INSTRUMENTATION AND CONTROL)

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Coriolis Flowmeter Comprehensive Training Class	Classroom – Vendor Instructor Led	2 days	ATA-VEN-EM-2401	Click here
Process Measurement Products I (Pressure and Temperature)		4 days	ATA-VEN-EM-2402	Click here
Process Measurement Products III (Level)		3 days	ATA-VEN-EM-2403	Click here
Wireless Self Organizing Networks		2 days	ATA-VEN-EM-2404	Click here
Operation and Maintenance of 700XA Gas Chromatographs		4 days	ATA-VEN-EM-2405	Click here
Tank Gauging Technical Product Training		5 days	ATA-VEN-EM-2406	Click here
DeltaV Operator Training for Continuous Operation		2 days	ATA-VEN-EM-2407	Click here
Fundamentals Of Vibration		2 days	ATA-VEN-EM-2408	Click here

LIST OF COURSES

EMERSON TRAINING COURSES (INSTRUMENTATION AND CONTROL)

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
AMS Device Manager	Classroom – Vendor Instructor Led	4 days	ATA-VEN-EM-2409	Click here
DeltaV Hardware & Troubleshooting		5 days	ATA-VEN-EM-2410	Click here
RA900V Floboss S600+/Configuration600 Fundamentals		3 days	ATA-VEN-EM-2411	Click here
Control Loop Foundation		5 days	ATA-VEN-EM-2412	Click here
Basic Vibration Analysis		4 days	ATA-VEN-EM-2413	Click here
Intermediate Vibration Analysis		4 days	ATA-VEN-EM-2414	Click here
Advanced Vibration Analysis (ISO Category III Compliant)		4 days	ATA-VEN-EM-2415	Click here
Control Valve Engineering		3 days	ATA-VEN-EM-2416	Click here

LIST OF COURSES

EMERSON TRAINING COURSES (INSTRUMENTATION AND CONTROL)

COURSE TITLE	DELIVERY	DURATION	COURSE CODE	COURSE LINK
Fundamentals of HART based FIELDVUE™ Digital Valve Controllers using Emerson Field Communicators and ValveLink™ Mobile	Classroom – Vendor Instructor Led	3 days	ATA-VEN-EM-2417	Click here
ValveLink™ Software for Configuration and Calibration of FIELDVUE™ Digital Valve Controllers		3 days	ATA-VEN-EM-2418	Click here
Valve Trim & Body Maintenance		3 days	ATA-VEN-EM-2419	Click here
Hydrocarbon Gas Flow Measurement Systems		2 days	ATA-VEN-EM-2420	Click here
Hydrocarbon Liquid Flow Measurement Systems		2 days	ATA-VEN-EM-2421	Click here
Understanding Metering Systems: Applications, Operations and Maintenance		2 days	ATA-VEN-EM-2422	Click here

OTS TRAINING COURSES

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INTRODUCTION

OTS LEVEL 1

This course introduces learners to Distributed Control System (DCS) components. It covers the operation envelope, communication, shift handover, emergency response procedures and trends creation. It also covers alarm management exercises and working with different types of Control loops, creating an alignment between DCS and the field.

WHO CAN ATTEND?
Graduate – Minimum 1 year of field operation experience.
Non-Graduate - Minimum 2 years of field operation experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
4 Days

LEVEL OF THE COURSE
OTS Level 1 – Introduction

DELIVERY MODE
Yokogawa Simulator Lab + Classroom

Return to Course Summary

INTERMEDIATE

OTS LEVEL 2

This course covers the unit controls and normal operations of oil and gas plants. Learners will improve their operation skills in control philosophy. They will gain experience on various operation aspects such as unit startup, shutdown, and malfunctions in a safe environment.

WHO CAN ATTEND?
DCS Level 1 Training completed

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
4 Days

LEVEL OF THE COURSE
OTS Level - 2 Intermediate

DELIVERY MODE
Yokogawa Simulator Lab + Classroom

Return to Course Summary

ADVANCED

OTS LEVEL 3

This course covers multi-unit operations and provides an understanding of the impact on other units while performing an action on the process critical parameters.

Learners will identify plant upsets and will be able to control critical operating parameters and perform the required actions to keep the unit operations smooth and efficient.

WHO CAN ATTEND?
DCS Level 2 Training completed

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
4 Days

LEVEL OF THE COURSE
OTS Level - 3 Advanced

DELIVERY MODE
Yokogawa Simulator Lab + Classroom

Return to Course Summary

ADNOC PILOT PLANT TRAINING COURSES

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WELLHEAD PLANT

MODULE 01

This course provides a practical experience that conveys the real plant operation in safe environment conditions. It aims to enhance learners' knowledge and skills of plant process descriptions, startup, shutdown, equipment maintenance and handover procedures.

They will develop a better understanding about equipment including Pig Launcher, Christmas Tree, Hydraulic Control Panel, SSV, SSSV, Multiphase Flow Meter, DCS, ESD function and Wellhead Control Systems.

WHO CAN ATTEND?
Operators, technicians, supervisors, engineers, fresh graduates, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

LEVEL OF THE COURSE
APP with Classroom & DCS.

Return to Course Summary

CRUDE STABILIZATION PLANT

MODULE 02

This course provides an oil-plant operation practical experience. It covers equipment functions and process controls of Slug Catcher, Slug Catcher Separator, MP & LP Separator, Crude Stabilizer, Pig Receiver and DCS operation.

Learners will develop a better understanding about oil, water and gas separation principles, De-salter, and oil stabilization operations. They will experience P&ID tracing, ESD function, startup, and shutdown.

WHO CAN ATTEND?
Operators, technicians, supervisors, engineers, fresh graduates, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

LEVEL OF THE COURSE
APP with Classroom & DCS.

Return to Course Summary

GAS SWEETENING PLANT

MODULE 03

This course provides a practical plant operation experience. It covers equipment functions and plant control philosophy. Learners will develop a better understanding about gas sweetening and Amine regeneration process. They will be able to identify operating parameters, experience startup and shutdown. The main equipment includes Amine Contactor/Absorber, Sweet Gas Knock out Drum, Rich Amine Flash Drum, Rich/Lean Amine Heat Exchanger, Amine Stripper, Amine Stripper Reflux Drum, Lean Amine Filtration system, ESD function and DCS Operation.

WHO CAN ATTEND?
Operators, technicians, supervisors, engineers, fresh graduates, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

LEVEL OF THE COURSE
APP with Classroom & DCS.

Return to Course Summary

GAS DEHYDRATION PLANT

MODULE 04

This course provides a practical plant operation experience, and operation parameter control in a safe environment. It covers equipment functions and plant control philosophy. Learners will have a better understanding about equipment functions. The main equipment includes Glycol Contactor, Lean Glycol/ Dry Gas Heat Exchanger, Glycol Still Column, Reflux Condenser, Lean Glycol Filters, Lean Glycol Feed Pumps, Rich Glycol Flash Drum, Glycol Stripping Column, Lean Glycol Surge Drum & DCS Operation. They will experience and develop skills for, startup, shutdown, ESD function, DCS operation and handovers. They will also learn about equipment handover for maintenance.

WHO CAN ATTEND?
Operators, technicians, supervisors, engineers, fresh graduates, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

LEVEL OF THE COURSE
APP with Classroom & DCS.

Return to Course Summary

UTILITY PLANT

MODULE 05

This course provides a utility plant operation experience in a safe environment. It covers equipment functions and process control philosophy. Learners will develop skills for startup, shutdown, and LOTO application.

The main equipment includes air compressors system, instrument air, plant air, chemical injection system, hot & cold-water system, Vent, Drain systems, oil sumps operation and DCS operation.

WHO CAN ATTEND?
Operators, technicians, supervisors, engineers, fresh graduates, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

LEVEL OF THE COURSE
APP with Classroom & DCS.

Return to Course Summary


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MAINTENANCE
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ELECTRICAL EQUIPMENT INSPECTION,TESTING AND TROUBLESHOOTING

ELECTRICAL MAINTENANCE

The course will provide the participants an understanding on how to inspect and test electrical equipment. The course will also cover start-up, operation, periodic inspection and testing.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

BASIC ELECTRICAL AND INSTRUMENTATION

ELECTRICAL MAINTENANCE

The course covers the electrical principles and components used in Electrical systems and industrial instrumentation.
After completion of the course, participants will be able to:
Evaluate the direct current (DC) relationships between voltage, current, and resistance, Determine alternating current (AC) characteristics including amplitude, frequency, and phase, Identify the properties of an inductor and of a capacitor, Identify schematic symbols used for electrical devices, Understand poly-phase voltages and currents found in the industrial environment and Understand how to install, testing, commissioning and maintain of electrical equipment.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

RELAY PROTECTION SYSTEM AND CALIBRATION

ELECTRICAL MAINTENANCE

This course provides an overview of basic electrical protection in oil and gas industries. It covers various protection devices and schemes in electrical power systems including various types of relays and circuit breakers in electrical protection.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

AC ELECTRICAL MOTOR & DRIVES

ELECTRICAL MAINTENANCE

This course provides knowledge and practice on AC electrical motors and drives. Learners will be able to identify motor types & their applications. They will be able to ensure asset integrity by learning working principles such as various starters, protection, kinds of necessary maintenance and testing.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

CATHODIC PROTECTION

ELECTRICAL MAINTENANCE

This course provides an understanding of basic corrosion and prevention technology. It will also cover methods of controlling corrosion. It will show learners the importance of C.P. for oil & gas asset integrity including maintenance and testing.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

BATTERY MAINTENANCE & UPS SYSTEM

ELECTRICAL MAINTENANCE

This course provides knowledge and practice for maintaining UPS and battery systems. It prepares learners to operate safely without risking the critical load. Learners will gain the competency levels of maintenance technicians and plant operators to able to work in critical and emergency power systems.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

POWER TRANSFORMER OVERVIEW

ELECTRICAL MAINTENANCE

This course is an overview of the concept of power transformers. It covers the power transformers' fundamentals, parts, considerations, and types of cooling. It focuses on what maintenance technicians need to be able to read and understand technical data. It also highlights Tap Changer selection, inspection, maintenance, and common failures.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

MOTOR PREVENTIVE MAINTENANCE (PM) & TESTING

ELECTRICAL MAINTENANCE

This course offers knowledge and practice related to Electrical Motor Testing and its maintenance activities. Learners will perform practical tasks in the workshop and in the Pilot Plant. They will undertake practical testing tasks such as IR, DAR, PI. Learners will be able to carry out preventative maintenance of three-phase-motors safely and efficiently.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

أدنـوك
ADNOC

INSTRUMENTATION & CONTROL MAINTENANCE

أكاديمية أدنوك الفنية
ADNOC Technical Academy

INSTRUMENTATION AND CONTROL FIELD INSTRUMENTS SERVICING, MAINTENANCE AND TROUBLESHOOTING

INSTRUMENTATION & CONTROL MAINTENANCE

The course will provide the participants an understanding on the Instrumentation and Control Field Instruments Servicing, Maintenance and Troubleshooting

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

BASIC INSTRUMENTS FOR OIL AND GAS INDUSTRY

INSTRUMENTATION & CONTROL MAINTENANCE

The course will help the participants to gain the basic knowledge of instrument measuring devices, control loop concepts, and ESD system

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

DISTRIBUTED CONTROL SYSTEM (DCS)/ INDUSTRIAL CONTOL SYSTEMS (ICS) OPERATION (INDUSTRIAL AUTOMATION)

INSTRUMENTATION & CONTROL MAINTENANCE

The purpose of this course is to introduce the fundamentals and in deep of DCS construction, discrete input/output system, analog I/O system, interfacing, programming, DCS/ICS system documentation. Monitoring, Data logging and analysis as an effective operation tool will be explained.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

BASICS OF PROCESS CONTROL

INSTRUMENTATION & CONTROL MAINTENANCE

The course will provide the participants an introduction to process control.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

BASICS OF PROCESS CONTROL & INSTRUMENTATION

INSTRUMENTATION & CONTROL MAINTENANCE

The course will provide the participants an introduction to process control & Instrumentation.
By the end of the course, the participants will:
Gain a solid understanding of control loops and their relevance to controller tuning, Obtain insights into the idea of PID controllers, Learn about different controller types, algorithms, and options, Learn how to configure feedback, feed forward, cascade and ratio control strategies.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

FISCAL FLOW METERING AND PROVING SYSTEM

INSTRUMENTATION & CONTROL MAINTENANCE

The course will provide an understanding on proving, calibration, maintenance, meter runs and other aspects of fiscal flow measurement.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

DISTRIBUTED CONTROL SYSTEM (DCS) OPERATION, MAINTENANCE AND TROUBLESHOOTING

INSTRUMENTATION & CONTROL MAINTENANCE

This course will provide an overview of distributed control systems (DCS). the course will also cover Operating principles, Maintenance procedures and troubleshooting techniques.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

FLOW MEASUREMENT AND CUSTODY TRANSFER

INSTRUMENTATION & CONTROL MAINTENANCE

The course will help the participants understand the variety of flow measurement technologies and systems that are used custody transfer applications and gain an understanding about how measurement systems can work properly and accurately.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

CONTROL VALVE SELECTION & MAINTENANCE

INSTRUMENTATION & CONTROL MAINTENANCE

This course provides an overview of the purpose of Control Valve in process industry. It covers its classification, features, common issues, and solutions. Learners will gain knowledge about Control Valve Positioners and their impact on performance. The course covers the maintenance techniques of Control Valve & Positioners theoretically and practically.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
4 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

SELECTION OF ELECTRICAL EQUIPMENT FOR HAZARDOUS AREAS

INSTRUMENTATION & CONTROL MAINTENANCE

This course provides an overview of electrical equipment selection requirements in hazardous areas. It provides an overview of hazardous area classification, based on the presence of hydrocarbon, and types of protection techniques. Learners will be able to interpret the IEC and ATEX specification on electrical equipment and verify its suitability for installation. The course is developed in-line with IEC-60079.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

FUNDAMENTALS AND TROUBLESHOOTING OF ONLINE ANALYZERS IN OIL & GAS INDUSTRY

INSTRUMENTATION & CONTROL MAINTENANCE

This course provides knowledge and understanding about working with online Analyzers used in oil & gas industry. It focuses on working principle and requirements of various online process Analyzers including Gas Chromatograph (GC), Dew Point Analyzer, H2S Analyzer, Basic Sediment & Water (BS&W) Analyzer, pH/ Conductivity Analyzer. It covers maintenance strategy, common problems and troubleshooting techniques.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

PROGRAMMABLE LOGIC CONTROLLER FUNDAMENTALS AND PROGRAMMING

INSTRUMENTATION & CONTROL MAINTENANCE

This course provides fundamentals of Programmable Logic Controller (PLC) and basics of programming. It covers PLC hardware components, functions, and benefits of using over relay logic. It provides knowledge and skills for developing PLC programs, using programming software and upload/ download for execution. Learners will use Siemens Simatic S7-300 PLC for practice.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

INSTRUMENTATION DRAWINGS AND DOCUMENTS

INSTRUMENTATION & CONTROL MAINTENANCE

This course provides knowledge and skills for using various drawings and documents for instrumentation maintenance. Learners will be able to read and interpret drawings & documents to carry out instrument maintenance and troubleshooting.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

INTRODUCTION TO PROCESS PLANT OPERATIONS AND INSTRUMENTS MAINTENANCE

INSTRUMENTATION & CONTROL MAINTENANCE

The course will provide the participants with an introduction to process plant operations, control and Instrumentation Maintenance. By the end of the course, the participants will get basic understanding of plant process operations in addition to process control loops components and description. This includes safety requirement in plants, description of process terminologies, equipment and WMS Procedures.

WHO CAN ATTEND?
Graduate trainees, Technicians, operators, foremen, supervisors, and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

أدنـوك
ADNOC

MECHANICAL MAINTENANCE

أكاديمية أدنوك الفنية
ADNOC Technical Academy

PRESSURE SAFETY VALVES (PSV) TESTING AND OVERHAULING

MECHANICAL MAINTENANCE

The course will provide the participants an understanding on the design, selection, testing and overhauling of pressure safety valves.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

CENTRIFUGAL PUMPS OPERATION, MAINTENANCE AND TROUBLESHOOTING

MECHANICAL MAINTENANCE

The course will help the participants to undemand the operation, maintenance and troubleshooting of centrifugal pumps.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

CENTRIFUGAL COMPRESSORS: OPERATION AND MAINTENANCE

MECHANICAL MAINTENANCE

Upon the successful completion of the course, participants will be able to understand the operation and maintenance of centrifugal compressors.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

AIR COMPRESSORS (AIR/ GAS RECIPROCATING & SCREW COMPRESSORS)

MECHANICAL MAINTENANCE

The course will provide the participants with knowledge on functions, applications, operation and maintenance of Reciprocating & screw Air/Gas Compressors.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

ALIGNMENT (METHOD AND APPLICATION)

MECHANICAL MAINTENANCE

This course set the basics of shaft alignment, starting from the preparations, pre-checking up to perform the alignment on various methods, including laser alignment.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

COUPLING, GEAR BOXES, BEARINGS AND LUBRICAION AND MECHANICAL SEALS

MECHANICAL MAINTENANCE

This course covers Basic Concepts of Coupling, Gear Boxes, Bearings and Lubrication and Mechanical Seals.
At the end of this program participants will understand the different types of seals. The course will also cover the selection, operation and maintenance strategies.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

LASER ALIGNMENT

MECHANICAL MAINTENANCE

The course will provide the participants with the understanding of alignment various methods and how to use Easy-Laser kit for shafts alignment.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

FLOWSERVE PUMP:MAINTENANCE AND TROUBLESHOOTING

MECHANICAL MAINTENANCE

The course will provide the participants an understanding on the maintenance and troubleshooting techniques for Flowserve Pumps.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

ADVANCED TROUBLESHOOTING OF ROTATING EQUIPMENT

MECHANICAL MAINTENANCE

The course will provide the participants with knowledge on the advanced treatment of the detection, location and diagnosis of faults in rotating and reciprocating machinery, using vibration analysis.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

COMPRESSORS- MAINTENANCE, INSPECTION AND OVERHAUL

MECHANICAL MAINTENANCE

This course applies in-depth knowledge and skills in compressor major inspection and overhaul.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

AIR COMPRESSOR OVERHAULING (AIR/ GAS RECIPROCATING & SCREW COMPRESSORS)

MECHANICAL MAINTENANCE

The course will provide the participants an understanding of Air/ Gas Reciprocating & screw compressor operation, Maintenance, Troubleshooting and overhauling procedure.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

HEAT EXCHANGERS: DESIGN, OPERATION, MAINTENANCE AND REPAIR

MECHANICAL MAINTENANCE

The course will help the participants to understand the design, operation and maintenance of heat exchangers.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

PUMPS AND COMPRESSORS - OPERATION, MAINTENANCE AND TROUBLESHOOTING

MECHANICAL MAINTENANCE

This course will help the participants to understand the operation, maintenance and troubleshooting of pumps and compressor.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

ANTI-FRICTION BEARINGS

MECHANICAL MAINTENANCE

This course is mixture of classroom and workshop training. The course provides an overview and application of anti-friction bearings used on various rotary machines. Learners will gain knowledge about anti-friction bearing components, design, and application. They will learn about anti-friction bearing function, classification, types, load, life cycle, fits, tolerance, identification numbering system, selection criteria, lubrication, installation, disassembling, & assembling and maintenance.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

FRICTION/PLAIN BEARINGS

MECHANICAL MAINTENANCE

This course is mixture of classroom and workshop training. It provides an overview of friction (plain or journal) bearing. It covers classification, types, components, function, material, load, selection criteria, lubrication, installation, oil whirl formation, oil wedge, clearance checks, failures, inspection, rejection, refurbishing and maintenance.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

LUBRICATION AND GEARBOX OVERVIEW

MECHANICAL MAINTENANCE

This course provides an overview of gearbox friction, lubrication, function, and applications. It also covers properties and methods of lubricants, lube oil analysis, storage, and various auxiliaries on lube oil system. It also covers gearbox inspection, maintenance, and troubleshooting.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

RECIPROCATING COMPRESSOR MAINTENANCE

MECHANICAL MAINTENANCE

The course will provide the participants with the knowledge and understanding of Reciprocating Compressor Maintenance.

It elaborates Function, Application, selection, operation, maintenance and trouble shooting strategies.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

MECHANICAL SEALS

MECHANICAL MAINTENANCE

The course will provide the participants with the knowledge and understanding of the different types of Dynamic type liquid handling Mechanical Seals. It elaborates Function, Application, selection, operation, maintenance and trouble shooting strategies.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

TRANSMISSION COMPONENTS COUPLINGS

MECHANICAL MAINTENANCE

This course is mixture of classroom and workshop training. It provides an overview of coupling power transmission, torque conversion, function, terminologies, types, selection, installation, mechanical advantage, failures, inspection, and maintenance. Learners will improve their technical knowledge about coupling characteristics, various operating loads, problem detection, root-cause analysis and failure prevention. They will gain knowledge and experience about how to deal with rotating machinery failures.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

TYPES OF VALVES IN OIL & GAS INDUSTRY

MECHANICAL MAINTENANCE

This course provides classroom and workshop training. It covers valve types, functions, safety for asset integrity, common issues and troubleshooting. It provides knowledge of classification, types, characteristics, nomenclature, application, specification, purpose, construction, components, and operation. It trains learners on safe practices of assembly, disassembly, servicing, and testing.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

PROCESS OPERATIONS

أكاديمية أدنوك الفنية
ADNOC Technical Academy

STORAGE TANKS

PROCESS OPERATIONS

The course will provide the participants an understanding on the factors influencing the performance and lifecycle of Storage.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

GAS COMPRESSION OPERATION-ADVANCED

PROCESS OPERATIONS

The course will provide the participants with the knowledge on abnormal condition, troubleshooting, trip logics, plant protection system and Emergency Shutdown System of compressor, turbine and its associated equipment.

WHO CAN ATTEND?
Operations Professionals

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
2 Days

LEVEL OF THE COURSE
Advanced

Return to Course Summary

AMINE AND GAS DEHYDRATION

PROCESS OPERATIONS

The course will provide the participants an understanding of Amine sweetening and Sulphur Recovery technologies. The course will also cover Gas Dehydration.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
2 Days

LEVEL OF THE COURSE
Advanced

Return to Course Summary

AMINE AND GAS DEHYDRATION

PROCESS OPERATIONS

The course will provide the participants an understanding of Amine sweetening and Sulphur Recovery technologies. The course will also cover Gas Dehydration.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

MULTI DISCIPLINE PROCESS EQUIPMENT MAINTENANCE PREPARATION

PROCESS OPERATIONS

This course enables learners of mixed-disciplines to develop an action plan for equipment maintenance. Learners will work in groups on a specific P&ID of equipment to develop a maintenance procedure for process-equipment readiness. They will create a maintenance summary for PTW, LOTO and work completion.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

BOILER & DEAERATOR OPERATION AND TROUBLESHOOTING

PROCESS OPERATIONS

This course provides an overview of Industrial Steam Boiler and the Deaerator Unit used in refinery and power generation. It covers startup, shutdown, troubleshooting, auxiliaries of combustion system, and feed-water pumps. It describes safe control operation and explains how to avoid accidents. It highlights the operator's roles and responsibilities.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

HEAT EXCHANGER DESIGN, OPERATION & MAINTENANCE

PROCESS OPERATIONS

This course provides an overview of Industrial Heat Exchanger, principles of heat transfer and fluid flow. It familiarizes learners with API, TEMA and ASME, various codes and standards and best practices used for design, manufacture, operation and maintenance of heat exchangers. Learners will analyze root causes, troubleshoot, and assist in inspection, cleaning, and maintenance. Workshops are included to enable learners to deal with fouling, corrosion failure and leak.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

INTRODUCTION TO CRUDE DISTILLATION UNIT

PROCESS OPERATIONS

This course provides an overview of crude oil distillation in refineries. It covers desalting, distillation, pre-heat, desalting, furnace system and all crude distillation operating system. It explains how crude oil is refined into petroleum products.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

INTRODUCTION TO PROCESS PLANT OPERATIONS

PROCESS OPERATIONS

This course provides an overview of the process plant Operations. This includes safety requirement in plants, description of process terminologies and equipment and WMS Procedures.
Moreover, P&ID interpretation skills is included, participants will visit ADNOC Pilot Plant at ATA to understand basics about process plant operations.

WHO CAN ATTEND?
Graduate trainees, Technicians, operators, foremen, supervisors, and engineers, or anyone with relevant experience.

PERFORMANCE EVALUATION
Course Performance Reports

CERTIFICATION
Certificate of attendance

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

أدنـوك
ADNOC

BAKER HUGHES COURSES

أكاديمية أدنوك الفنية
ADNOC Technical Academy

FUNDAMENTALS OF VIBRATION MEASUREMENTS

BAKER HUGHES

The course will provide the participants with understanding of vibration monitoring importance and maintenance strategies, vibration transducer operation, parameters used to measure vibration motion & Read values of amplitude, frequency & phase.

WHO CAN ATTEND?
Technicians working on vibration condition monitoring programs, Preventive maintenance, Reliability engineers, or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

TRANSDUCER INSTALLATION AND MAINTENANCE

BAKER HUGHES

The course will provide the participants with understanding of Vibration transducers, Proximity transducer operation and installation, Seismic transducer operation and installation & Instrument grounding.

WHO CAN ATTEND?
Technicians working on vibration condition monitoring programs, Preventive maintenance, Reliability engineers, or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

3500 OPERATION & MAINTENANCE

BAKER HUGHES

The course will provide the participants with understanding of functions of the 3500 monitoring & Correct operation of Proximity transducers. In addition to, define test Alarms, 3500 configuration, maintenance & Troubleshooting.

WHO CAN ATTEND?
Instrument technicians, 3500 monitoring system users, Engineers involved in maintenance and troubleshooting of the 3500-monitoring system or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

3500 FOR TSI APPLICATIONS

BAKER HUGHES

The course will provide the participants with understanding of: Overview of 3500 system, operational differences of probes, How to install and verify the scale factor, LVDT operation, Eccentricity probe, rotor speed and acceleration.

WHO CAN ATTEND?
Instrument technicians, 3500 monitoring system users, Engineers involved in maintenance and troubleshooting of the 3500-monitoring system or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

ORBIT 60 MONITORING SYSTEM

BAKER HUGHES

The course will provide the participants an understanding of: Orbit 60 functions, How to configure, maintain, test alarms and troubleshoot Orbit 60 monitoring system.

WHO CAN ATTEND?
Instrument technicians, Orbit 60 -monitoring system users, Engineers involved in maintenance and troubleshooting of the Orbit 60 monitoring system or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

ADRE 408 DSPI/SXP

BAKER HUGHES

The course will provide the participants with understanding of: How to Configure ADRE system, acquire data effectively for real-time analysis, machine condition analysis & document keeping in store databases for future use.

WHO CAN ATTEND?
ADRE 408 users, Condition monitoring engineers, Engineers involved in preventive or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

RANGER PRO USING SYSTEM 1

BAKER HUGHES

The course will provide the participants with understanding of: Ranger Pro software with System 1, How to install, operate, and maintain Ranger Pro sensors, manage Ranger Pro wireless condition monitoring system & Operation.

WHO CAN ATTEND?
Users of System 1 having Ranger Pro wireless, Condition monitoring engineers, engineers involved in preventive maintenance or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

SYSTEM 1 FOR TURBOMACHINERY

BAKER HUGHES

The course will provide the participants with understanding of Ranger Pro software with System 1 for Turbomachinery, How to install, operate, and maintain Ranger Pro sensors, manage Ranger Pro wireless condition monitoring system & Operation.

WHO CAN ATTEND?
Users of System 1 having Ranger Pro wireless, Condition monitoring engineers, engineers involved in preventive maintenance or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

SYSTEM 1 FOR PORTABLES

BAKER HUGHES

The course will provide the participants with understanding of: Configuring and navigating machine and device hierarchy, Creating machine databases, Configuring, display and manage spectral bands and fault frequencies, Configuring and managing alarm setpoints, data communication, alarms and generate diagnostic reports. In addition to, Verify, analyze, and visualize data to report.

WHO CAN ATTEND?
System 1 platform users, Reliability personnel, Condition monitoring engineers, Personnel involved in preventive maintenance or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

SYSTEM 1 BENTLY PERFORMANCE

BAKER HUGHES

The course will provide the participants with understanding of: monitoring machinery performance, How to Identify the general inputs and expected outputs for performance monitoring on various types of machinery. In addition, Using the System 1 Bently Performance tool to monitor and troubleshoot the system.

WHO CAN ATTEND?
System 1 Users who want to use Bently Performance or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

SYSTEM 1 DECISION SUPPORT

BAKER HUGHES

The course will provide the participants with understanding of: How to Install and configure the Product, Create and deploy interdependent rules. Also, it provides information on how to upgrade & revise the rule.

WHO CAN ATTEND?
Customers new to Decision Support for System 1 v20.1 or later, Reliability personnel, Condition monitoring engineers, Personnel involved in preventive maintenance or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

3500 OPERATION & MAINTENANCE AND SYSTEM 1

BAKER HUGHES

The course will provide the participants with understanding of: 3500 monitoring system functions, proximity transducer systems Operation, Test monitor alarms & verification, 3500 monitor system configuration, manage machine database and alarms, System 1 software tools uses, alarms, events & report creation.

WHO CAN ATTEND?
Instrument technicians, 3500 monitoring system and System 1 users, Engineers involved in maintenance and troubleshooting of the 3500-monitoring system or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

ORBIT 60 MONITORING SYSTEM AND SYSTEM 1

BAKER HUGHES

The course will provide the participants with understanding of Orbit 60 monitoring system functions, proximity transducer systems operation, Test alarm & verification, Orbit 60 Studio software to configuration, create, configure, display and manage machine database and alarms, System 1 software tools functions, alarms, events & report creation.

WHO CAN ATTEND?
Instrument technicians, Orbit 60 monitoring system and System 1 users, Engineers involved in maintenance and troubleshooting of the Orbit 60 monitoring system or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

MACHINERY DIAGNOSTICS METHODOLOGY

BAKER HUGHES

The course will provide the participants with understanding of fundamentals of machine design and behavior, Reduce machine vibration data into usable plot formats, Plot formats section best to use for diagnostics, describe the causes, effects and indicators of the typical machine malfunctions, recognition of problems such as unbalance, misalignment, rubs, shaft cracks and fluid induced instabilities.

WHO CAN ATTEND?
Reliability Engineers who determine machine condition ,Engineers involved in the design, acceptance testing, and maintenance of rotating machinery, Engineers who want to learn about machinery vibration diagnostic or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

RECIPROCATING COMPRESSOR CONDITION MONITORING & DIAGNOSTICS

BAKER HUGHES

The course will provide the participants with understanding of Compression process and interpret vibration readings, Relate reciprocating compressor components to various failure modes. Plot selection & uses for machine condition, calculating rod load conditions, Discovering the full application and benefits of rod position, Conduct a compressor vibration analysis.

WHO CAN ATTEND?
Fresh Engineering graduates, Engineers who interpret reciprocating compressor vibration and analyzing malfunctions to diagnose and optimize assets, Engineers who design and perform acceptance testing and maintenance on reciprocating machinery.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

APPLIED DIAGNOSTICS WORKSHOP

BAKER HUGHES

The course will provide the participants with understanding of practical application of the malfunction detection methodology, Practice on real data of different rotating machines and malfunctions, System 1 or ADRE databases uses, indicative of the machine fault by plot, Present conclusions and make recommendations.

WHO CAN ATTEND?
Engineers and technicians involved in vibration data analysis, New machinery diagnosticians & Experienced diagnostics or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

ADVANCED FIELD BALANCING

BAKER HUGHES

The course will provide the participants with understanding of Conducting effective machine balancing, calculation of trials, evaluation of results, decision making. Select strategy for minimum disruption costs and proper data quality, use calculation tools, evaluate inputs and outputs, balancing methods and data conventions, deep understanding of balancing process & installation and troubleshooting data integrity problems.

WHO CAN ATTEND?
Machinery diagnosticians, Startup engineers, Remote diagnostic center specialists, Plant engineers that oversee field and shop balancing work or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Advanced

Return to Course Summary

ADVANCED MACHINERY DYNAMICS

BAKER HUGHES

The course will provide the participants with understanding of machinery diagnostic techniques, rotor dynamics, complex rotor dynamics interaction of modes, mode shapes, thermal changes, bearing design, torsional vibration and structural modes, machine data and case history, simulating rotor kits through demonstration, vibration documentation, analysis and machine malfunction corrective techniques.

WHO CAN ATTEND?
Machinery vibration diagnostics engineers, Engineers involved in design, acceptance testing, maintenance of rotating machinery, Academic researchers and professors involved in rotor dynamics, post-graduate engineers or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Advanced

Return to Course Summary

ISO 18436 CATEGORY I JUNIOR VIBRATION ANALYST WITHOUT EXAM

BAKER HUGHES

The course will provide the participants with understanding of Preparation for the ISO 18436 category I certification test, collecting quality data, and performing basic analysis and data validation & Developing basic knowledge on vibration analysis and condition monitoring.

WHO CAN ATTEND?
New vibration analysts, Reliability engineers, Personnel who want to get certified to international standards (ISO-18436) or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
4 Days

LEVEL OF THE COURSE
Basic / Fundamental

Return to Course Summary

ISO 18436 CATEGORY II INTERMEDIATE VIBRATION ANALYST WITHOUT EXAM

BAKER HUGHES

The course will provide the participants with Preparation for the ISO 18436 category II certification test, Skills of diagnosing a wide range of faults, conducting special tests, and performing precision aligning and balancing machinery.

WHO CAN ATTEND?
Reliability engineers, Personnel who want to become certified to international standards (ISO-18436) or any one with relevant experience or enhancing the skills.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

ISO 18436 CATEGORY III SENIOR VIBRATION ANALYST WITHOUT EXAM

BAKER HUGHES

The course will provide the participants with Preparation for the ISO 18436 category III certification test, Skill of managing the condition monitoring program, diagnosing the widest range of fault conditions, verifying and correcting resonance problems, performing complex balancing machinery.

WHO CAN ATTEND?
Reliability engineers, Engineers confident in spectrum but who want to learn about signal processing, time waveform and phase analysis, Personnel who want to become certified to international standards (ISO-18436) or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Advanced

Return to Course Summary

ISO 18436 CATEGORY IV EXPERT VIBRATION ANOMALY

BAKER HUGHES

The course will provide the participants with Preparation for the ISO 18436 category IV certification test, capability of handling any condition that may be presented, capability of performing any test, and full understanding of flexible rotor machinery.

WHO CAN ATTEND?
Reliability engineers, Engineers who want to Enhanced advanced skill in vibration analyst, Preparation for certification to international standards (ISO-18436) or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
5 days course (35 hours)

LEVEL OF THE COURSE
Advanced

Return to Course Summary

ARP-A : ASSET RELIABILITY PRACTITIONER FOR RELIABILITY ADVOCATE

BAKER HUGHES

The course will provide the participants with Preparation for the ED161 certification test, improving reliability and plant performance, implementation process and all the essential required elements.

WHO CAN ATTEND?
Reliability Engineers, Managers, Personnel who want to become certified to international standards (ED161) or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 days

LEVEL OF THE COURSE
Advanced

Return to Course Summary

ISO 18436-7 CAT I– INFRARED THERMOGRAPHY

BAKER HUGHES

The course will provide the participants with understanding of infrared thermography to increase their knowledge about infrared physics, heat science and infrared measurement equipment and its application.

WHO CAN ATTEND?
Reliability engineers, Engineers who want to Enhanced advanced skill in Infrared Thermography, Preparation for certification to international standards (ISO-18436) or any one with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
5 days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

MACHINE LUBRICANT ANALYST LEVEL-1

BAKER HUGHES

The course will provide the participants with understanding of machinery Lubrication- Level 1, it gives a foundation in lubrication best practices and product knowledge, Learning of proven industry methods for selecting, storing, filtering and applying lubricants to boost reliability and how to decrease maintenance costs. Participants will also gain a better understanding of oil analysis and how it can help us make better lubrication decisions.

WHO CAN ATTEND?
Reliability engineers, Engineers who want to Enhanced skills in Machine lubricant analysis.

CERTIFICATION
Vendor Certificate

DURATION
5 days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

INTRODUCTION TO MACHINERY DIAGNOSTICS (INSTRUMENTATION &ELECTRICAL)

BAKER HUGHES

The course will provide the participants an understanding on defining, characterizing, and implementing systems for monitoring rotating machinery during operation, with focus on instrumentation and Electrical parts.

WHO CAN ATTEND?
Reliability engineers, Instrumentation and Electrical Engineers who want to gain knowledge in Machinery Diagnosis.

CERTIFICATION
Vendor Certificate

DURATION
3 days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

INTRODUCTION TO MACHINERY DIAGNOSTICS (MECHANICAL)

BAKER HUGHES

The course will provide the participants an understanding on defining, characterizing, and implementing systems for monitoring rotating machinery during operation, with focus on mechanical parts.

WHO CAN ATTEND?
Reliability engineers, Mechanical Engineers who want to gain knowledge in Machinery Diagnosis.

CERTIFICATION
Vendor Certificate

DURATION
3 days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

أدنـوك
ADNOC

EMERSON COURSES

أكاديمية أدنوك الفنية
ADNOC Technical Academy

CORIOLIS FLOWMETER COMPREHENSIVE TRAINING CLASS

EMERSON

The course will provide the participants with understanding of how Coriolis flowmeter works, its installation and troubleshooting steps for purpose of maintenance. The course will also cover periodic inspection and testing of Coriolis flowmeter.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

Note: Prior Understanding of the basics of how measurement made, electrical, analog and frequency signals processing are assumed.

CERTIFICATION
Vendor Certificate

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate / Advanced

Return to Course Summary

PROCESS MEASUREMENT PRODUCTS I (PRESSURE AND TEMPERATURE)

EMERSON

The course explains how pressure and temperature instrument function and how the are installed and calibrated. It emphasizes installation, proper setup and calibration of Analog and Smart Pressure and Transmitters. The course uses lectures and labs to teach the participants.

Those who complete this course will be able to:

- Correctly perform installation and setup procedures
- Properly Configure Pressure and Temperature Transmitters.
- Properly Calibrate Pressure and Temperature Transmitters.
- Perform basic troubleshooting.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

Note: Prior basic Knowledge in instrument calibration, maintenance, installation and operation would be helpful.

CERTIFICATION
Vendor Certificate

DURATION
4 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

PROCESS MEASUREMENT PRODUCTS III (LEVEL)

EMERSON

The course will provide the participants with understanding of how level instruments function and how they are installed and calibrated. It emphasizes installation, proper setup and calibration / verification of level instruments.

The course uses lectures and labs to teach the participants. Those who complete this course will be able to:

- Correctly install Guided Wave Radar Transmitters.
- Correctly install Non-contacting Radar Transmitters.
- Properly calibrate Level instruments
- Perform basic troubleshooting

WHO CAN ATTEND?
This course is intended for technicians, engineers and other plant personnel who need to know installation, calibration, maintenance and troubleshooting of Level measurement.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

WIRELESS SELF ORGANIZING NETWORKS

EMERSON

This course explains how Self Organizing Wireless Networks function and how they are installed, setup, configured and integrated. It emphasizes planning, proper installation and startup, configuration, maintenance and integration.

WHO CAN ATTEND?
This course is intended for technicians, engineers and other plant personnel who need to know how to design, install, setup, configure, maintain and troubleshoot Wireless Self Organizing Networks and their Components.

CERTIFICATION
Vendor Certificate

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

OPERATION AND MAINTENANCE OF 700XA GAS CHROMATOGRAPHS

EMERSON

The course will provide the participants with understanding of basics of how a gas chromatograph works, emphasizing chromatograph fundamentals and basic theory. The course will also cover,periodic inspection testing, and maintenance.

WHO CAN ATTEND?
This course is appropriate for those who have either worked with a chromatograph for at least six months or completed the 'Introduction to Gas Chromatographs' course. It prepares participants to operate and repair a Model 500 gas chromatograph. The main prerequisites are basic computer skills and DMS.

CERTIFICATION
Vendor Certificate

DURATION
4 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

TANK GAUGING TECHNICAL PRODUCT TRAINING

EMERSON

This course provides good coverage for Tank Gauging products supplied by Rosemount. It gives a general understanding on how to install, startup, commission and maintain a tank gauging system. It also helps the participants to understand how to optimize and maximize the benefits of using Rosemount Tank Gauging systems.

WHO CAN ATTEND?
This course is suitable for project and maintenance engineers, and personnel who are responsible for maintaining the tank gauging system at site.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

DELTA V OPERATOR TRAINING FOR CONTINUOUS OPERATION

EMERSON

The course will provide the participants with understanding of Delta V Operator training for Continuous operation (Emerson).

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

FUNDAMENTALS OF VIBRATION

EMERSON

The course will provide the participants with understanding of Fundamentals Of Vibration (Emerson).

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

AMS DEVICE MANAGER

EMERSON

The course will provide the participants with understanding of AMS Device Manager (Emerson). This includes Viewing and Modifying Devices,Creating a Plant Database Hierarchy and Adding Devices Field Communicator-AMS, Device Manager, AMS Device Manager Browser Functions, Audit Trail, Calibrating Device, Calibration Assistant, Configuring and Monitoring System Alerts.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

The training exercises focus on skills required by engineers and technicians for AMS device Manager.

CERTIFICATION
Vendor Certificate

DURATION
4 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

DELTA V HARDWARE & TROUBLESHOOTING

EMERSON

This course focuses on the hardware components that make up the DeltaV system. Using a combination of lectures and workshops, participants will assemble the system and power up the Controller, 1/0 subsystem, and workstation. They will learn how to use the diagnostic tools available to verify and locate hardware-related fault conditions and introduced to configuration tools and the operator interface.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

The training exercises focus on skills required by engineers and technicians for AMS device Manager.

CERTIFICATION
Vendor Certificate

DURATION
4 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

RA900V FLOBOSS S600+/CONFIGURATION600 FUNDAMENTALS

EMERSON

The course will provide the participants with understanding of RA900V Floboss S600+/Configuration600 Fundamentals.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

CONTROL LOOP FOUNDATION

EMERSON

This course is for engineers, managers, technicians and others who are new to process control. This course includes the practical aspects of control design and process applications that course developers personally learned through years of hands-on experience while designing and commissioning process control applications.

WHO CAN ATTEND?
This course for personnel new to automation and covers process control undamentals as well as the practical aspects of control system design and applications. Upon completion of this course the student will be able to effectively work with and commission single and multi-loop control strategies. Interactive workshops allow the Participants to apply what the learn in the class.

CERTIFICATION
Vendor Certificate

DURATION
5 Days

LEVEL OF THE COURSE
Basic

Return to Course Summary

BASIC VIBRATION ANALYSIS (ISO CATEGORY I COMPLIANT)

EMERSON

This course complies with Category I Vibration Analyst per ISO standard 18436- 2: Vibration condition monitoring and diagnostics. This course is intended to enable participants to operate single channel machinery analyzers, dump and load routes, recognize the difference between good and bad data and compare vibration measurements against preestablished alert settings. Although this training course is not product specific, participants will use Emerson's CSI technologies for demonstration purposes.

WHO CAN ATTEND?
This course is for individuals who need an introduction to the technology and concepts used in the new generation of process control systems.

CERTIFICATION
Vendor Certificate

DURATION
4 Days

LEVEL OF THE COURSE
Basic

Return to Course Summary

INTERMEDIATE VIBRATION ANALYSIS (ISO CATEGORY II COMPLIANT)

EMERSON

This course complies with Category II Vibration Analyst per ISO standard 18436- 2: Vibration condition monitoring and diagnostics. Category II vibration analysts are expected to be able to select appropriate vibration measurement techniques, set up instruments for basic resolution of amplitude, frequency, and time, perform basic spectrum analysis, maintain a database of results and trends, perform single-channel impact tests, classify, interpret and evaluate test results in accordance with applicable specifications and standards, recommend minor corrective actions.

WHO CAN ATTEND?
This course is for individuals who completed : 'Basic Vibration Analysis course'.

Note: Prior accumulative 18 months of field experience are recommended.

CERTIFICATION
Vendor Certificate

DURATION
4 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

ADVANCED VIBRATION ANALYSIS (ISO CATEGORY III COMPLIANT)

EMERSON

This course complies with Category III Vibration Analyst per ISO standard 18436-2: Vibration condition monitoring and diagnostics. This course expands on the subjects covered in the Intermediate Vibration course (Category II), especially in the areas of fault analysis and corrective actions.

WHO CAN ATTEND?
This course is for individuals who completed : 'Intermediate Vibration Analysis course'.

Note: Prior accumulative 3 years of field experience are recommended.

CERTIFICATION
Vendor Certificate

DURATION
4 Days

LEVEL OF THE COURSE
Advanced

Return to Course Summary

CONTROL VALVE ENGINEERING I

EMERSON

The course will provide participants with understanding of Control Valve Engineering(Emerson). This course reviews design and operating principles of control valves, actuators, positioners and related accessories. It describes the sizing and selection methods for a broad variety of control valve assemblies. Participants will solve several problems using Fisher Specification Manager and published materials.

WHO CAN ATTEND?
Technicians, operators, foremen, supervisors, graduate trainees and engineers, or anyone with relevant experience.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

FUNDAMENTALS OF HART BASED FIELDVUE™ DIGITAL VALVE CONTROLLERS USING EMERSON FIELD COMMUNICATORS AND VALVELINK™ MOBILE

EMERSON

This course provides the necessary skills to: Install and mount a FIELDVUE™ digital valve controller onto Sliding Stem Actuator/ Valve and Rotary Actuator/Valve Assemblies, Configure and calibrate FIELDVUE™ Instruments with the Field Communicator.

WHO CAN ATTEND?
This course is for technicians, engineers and others responsible for installing, calibrating and basic troubleshooting FIELDVUE™ instruments using the AMS Trex Field Communicator.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

VALVELINK™ SOFTWARE FOR CONFIGURATION AND CALIBRATION OF FIELDVUE™ DIGITAL VALVE CONTROLLERS

EMERSON

The course will provide the participants with understanding of Fundamentals of HART based FIELDVUE™ Digital Valve Controllers using Emerson Field Communicators and ValveLink™ Mobile(Emerson). Introduction to ValveLink™ Software ValveLink™ Tag and Database Management, Configuration with ValveLink™ Calibration with ValveLink™, ValveLink™ Advanced and Performance Tier Diagnostics, Troubleshooting, Introduction to Diagnostic, Data Interpretation.

WHO CAN ATTEND?
This course is for technicians, engineers and others responsible for installation, calibration and diagnostics of FIELDVUE™ digital valve controllers and ValveLink™ software.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

VALVE TRIM & BODY MAINTENANCE

EMERSON

The course will provide the participants with understanding of Valve Trim & Body Maintenance (Emerson). This course explains how valves and actuator's function and how they are installed and calibrated. It emphasizes installation, troubleshooting, parts replacement, and calibration of control valves, actuators, and digital valve controllers.

WHO CAN ATTEND?
This course is for technicians, engineers and others responsible for installation, calibration and diagnostics of FIELDVUE™ digital valve controllers and ValveLink™ software.

CERTIFICATION
Vendor Certificate

DURATION
3 Days

LEVEL OF THE COURSE
Basic

Return to Course Summary

HYDROCARBON GAS FLOW MEASUREMENT SYSTEMS

EMERSON

This course provides participants with a detailed understanding of the principles of measurement for hydrocarbon Gases. In addition to, Consideration of the correct Primary measuring device, its installation, operation and secondary instrumentation requirements will be explained. The instructor will reference to applicable standards, used to design the system to optimize performance. This includes system calibrations and device maintenance. Full supporting literature will be made available to participants.

WHO CAN ATTEND?
Participants with basic knowledge of flow measurement is required.

CERTIFICATION
Vendor Certificate

DURATION
2 Days

LEVEL OF THE COURSE
Basic

Return to Course Summary

HYDROCARBON LIQUID FLOW MEASUREMENT SYSTEMS

EMERSON

The course will provide the participants with understanding of Hydrocarbon Liquid Flow Measurement Systems (Emerson). This course provides participants with a detailed understanding of the principles of measurement for Hydrocarbon Liquids. In addition to, Consideration of the correct Primary measuring device, its installation, operation, and secondary instrumentation requirements will be explained. The instructor will reference to applicable standards, used for design, and to optimize system performance. This includes system calibrations, meter-proving practices and maintenance.

WHO CAN ATTEND?
Participants with basic knowledge of flow measurement is required

CERTIFICATION
Vendor Certificate

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary

UNDERSTANDING METERING SYSTEMS: APPLICATIONS, OPERATIONS AND MAINTENANCE

EMERSON

The course will provide the participants with understanding of Metering Systems: Applications, Operations and Maintenance (Emerson). Introduction to high accuracy fluid flow measurement systems will be provided.

The instructor will explain the practical application of gas and liquid flow meters and secondary instrumentation, as well as the liquid sampling and gas analysis techniques for measuring product quality.

WHO CAN ATTEND?
Participants with background in process control or process instrumentation is required.

CERTIFICATION
Vendor Certificate

DURATION
2 Days

LEVEL OF THE COURSE
Intermediate

Return to Course Summary