



Global Professionals Institute for Training  
معهد المحترفون العالميون للتدريب الأهلي

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## Natural Gas Plant Operations



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## Introduction

Natural gas plant operators monitor and control the systems and equipment that take gas from its natural state and convert it into a usable product. Your job is to ensure that the gas produced is free of impurities. The purified gas is then separated into products such as ethane, propane, butane, and methane. You'll also be responsible for the flow of this processed gas into the pipelines that carry it to the various industries and homes that use it for fuel. In addition, you'll make gas flow changes to the supply system to keep pace with customer demands.

## Course Objectives:

- ✓ Develop the knowledge and skills you'll need to begin a career in natural gas plant operations
- ✓ Learn what to expect when working at a natural gas plant
- ✓ Refine your skills in mathematics and science that will be used on the job
- ✓ Set yourself apart from competitors by taking an online course to prove your interest
- ✓ Enrolled students are invited to attend our exclusive annual virtual National Apprenticeship Week events, featuring live webinars, workshops, and employer interactions



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## Who should attend?

- ❖ Technical managers and supervisors overseeing gas treatment operations.
- ❖ Anyone interested in gaining a solid understanding of gas sweetening and sulfur recovery.

## Program Syllabus

### First Day

- Basic Safety
- Basic Hazard Communication
- Basic Lockout-Tagout
- Math 1000: Basic Math 1
- Math 2000: Basic Math 2
- Math2500: Basic Math 3



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## Second Day

- Applied Physics 1
- Applied Physics 2
- Applied Physics 3
- Heat Exchangers

## Third Day

- Lubrication and Bearings
- Electrical Safety
- Electricity for Operators and Technicians
- Industrial Valves
- Compressed Air

## Fourth Day

- How to Read Process Drawings
- Basic Process Instrumentation and Control
- Pump Fundamentals
- Centrifugal Pumps – Operation



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## Fifth Day

- Refining 1000: Introduction to Petroleum Refining
- Refining 2000: Distillation Technology
- Natural Gas 1000: Introduction to Natural Gas
- Natural Gas 2000: Introduction to Drilling
- Natural Gas 3000: Gas Plant Operations 1
- Natural Gas 3500: Gas Plant Operations 2

## Program Methodology

A highly interactive combination of lecture and discussion sessions will be managed to maximize the amount and quality of information, knowledge and experience transfer. The sessions will start by raising the most relevant questions, and motivate everybody finding the right answers. The attendants will also be encouraged to raise more of their own questions and to share developing the right answers using their own analysis and experience. Course material through power point equipped with necessary animation, learning videos, and general discussion to provide participants with full understanding concerning the subject course will be provided.

## Percentage of Delivery Methodologies

50% Presentation

20% Group & Individual Exercises

20% Case Studies

10% Active Movies and Videos



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## العرض المالي

السعر	مكان الانعقاد	تايخ الانعقاد	مدة البرنامج
1200kd	Dubai	26- 30 January 2025	5 days

### تفاصيل التكلفة :

- المحاضرة العلمية ❖
- المادة العلمية ❖
- الشهادات ❖
- بوفيه خفيف ❖



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