



*Training Course:*  
***ADVANCED ENERGY FINANCE ANALYTICS***

*12 - 16 May 2024*  
*Alexandria (Egypt)*

## Training Course: ADVANCED ENERGY FINANCE ANALYTICS

Training Course code: MA234787 From: 12 - 16 May 2024 Venue: Alexandria (Egypt) - Training Course Fees: 3950 € Euro

### Introduction

This advanced energy finance executive education program is designed to provide participants with a strong foundation for understanding energy finance. This training course will address three areas of finance in an energy context: Pricing, asset valuation, and risk management.

The program will begin by developing participants' understanding of energy markets, as well as how to forecast energy prices. This training course will then consider valuation and the application of option theory to energy-related assets.

This course will focus on giving delegates an understanding of energy-related derivatives. Delegates will be taught the different derivative products and learn how to apply them in the energy markets to develop hedging and risk management strategies. Such strategies will specifically include energy end-users - producers or consumers - seeking to hedge the risks their corporations face from varying and uncertain energy prices.

By the end of this training course, delegates will leave with an understanding of the energy markets and how to manage the financial risks created by volatile energy prices. In addition, delegates will gain the skills to accurately value energy assets and use derivatives to mitigate energy price risk.

### Course Objectives:

- Use financial models to analyze and forecast energy prices; extrapolate forward prices beyond the liquidity tenor
- Understand the risk of and return from futures and options contracts on energy commodities
- Manage and optimize their corporations' energy risk exposure
- Estimate and calculate volatility in energy prices
- Apply option valuation techniques to the energy markets
- Understand and use derivative products to mitigate energy price risk; use structured products to enhance firm value; understand exotic structures unique to oil e.g. average option and gas and power e.g. swing options, weather derivatives
- Utilize real options theory to value energy assets; use information from futures/option prices to make optimal production decisions: Valuation of oil fields, pipelines, storage facilities and power plants
- Apply Value-at-Risk to the energy industry

### Target Audience:

- Financial analysts
- Quantitative analysts or researchers
- Energy traders dealing with commodities
- Risk Managers dealing with commodities
- Commercial and investment bankers dealing with commodities
- Consultants in the commodity arena
- Government and regulatory officials, esp. those with responsibilities for the energy sector

## Course Outline:

- The Current State of the Equity and Commodity Markets - The "Message from Markets"
- Forward/Futures Prices and Forecast Prices
- Energy Risk Management at the Corporate Level
- Basic Option Valuation Techniques
- Volatility and Correlation in Energy Prices
- Using Derivative Products to Mitigate Energy Price Risk
- Extrapolating in Energy Markets
- Energy Assets as Real Options - Power Plants as Spread Options
- Value-at-Risk in the Energy Industry

## Registration form on the Training Course: ADVANCED ENERGY FINANCE ANALYTICS

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Company Information

Company Name: .....  
Address: .....  
City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
Position: .....  
Telephone / Mobile: .....  
Personal E-Mail: .....  
Official E-Mail: .....

### Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
- ☐ Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
3 Oudai street, Aldouki,  
Giza, Giza Governorate,  
Egypt.