

GARP ERP®

Certification Preparation Course

Examination preparation for Energy Risk Professional certification
by the Global Association of Risk Professionals (GARP)



London - Wed 16th - Fri 18th October 2013
Geneva - Thu 24th - Sat 26th October 2013

HOSTING INSTITUTIONS

A COMPREHENSIVE COURSE ON “PHYSICAL AND FINANCIAL RISK MANAGEMENT” IN PREPARATION FOR THE GARP ERP® CERTIFICATION EXAM BY THE GLOBAL ASSOCIATION OF RISK PROFESSIONALS (GARP)

About the ERP® Program

Get Certified as an Energy Risk Professional (ERP®)

The Energy Risk Professional (ERP®) Program is the first and only designation for global energy professionals. Energisk's Course on “Physical and Financial Risk Management” fully covers the material in accordance with the topics outlined in the 2013 ERP Study Guide, and reflects the learning objectives defined by the GARP's Energy Oversight Committee (EOC). This course will be an excellent preparation for practitioners and professionals planning to take the Energy Risk Professional (ERP®) Exam, with the course being delivered by experts in the energy space. Statistics says that 84% of Certified ERPs® would prefer to hire a candidate with the ERP® designation over one without the credential, creating a powerful, elite network.

*<http://www.garp.org/erp/career-benefits.aspx>

FAST FACTS

- » Since its inception, ERP® registrations have grown 99% year-on-year
- » In 2011, ERP® candidates originated from 36 countries and over 450 organizations
- » 163 organizations have been represented by three or more ERP® candidates since 2009
- » 94% of those who sat for the November 2011 ERP® Exam reported that the topics were applicable to their current jobs

A Comprehensive Course on Physical and Financial Energy Risk

Welcome to this new course in Energy and Commodity Finance

Summary of the Course

The course topics cover physical energy assets and operations, financial modelling, and risk management across the entire energy and commodity value chain. All material has been developed in accordance with the topics outlined in the 2013 ERP Study Guide, and reflects the learning objectives defined by the GARP's Energy Oversight Committee (EOC). The content is designed with the objective of preparing participants to be tested on the required knowledge and tools necessary for professionals that manage risk in the energy industry.

Get Certified as an Energy Risk Professional (ERP®)

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Preparation for the Exam

The Energy Risk Professional certification Exam is a self-directed study program. For past exams, a majority of candidates report spending between 150 to 300 hours preparing for the exam. We offer this ERP® Exam preparation course for candidates who wish to benefit from a more structured and intensive test-preparation program.

Who should attend?

This course is applicable to mid-office staff such as risk managers and financial analysts wishing to strengthen their skills. It is also suitable for front-office positions including traders and sales requiring to improve their knowledge over the whole value chain of energy and commodity linked products. These key target professionals, as well as back-office employees, may all benefit from a career enhancement perspective.

You can of course attend the course without taking the exam.

PROGRAM

DAY 1

Financial Risk

Course leader: Viviana Fanelli

FINANCIAL PRODUCTS

Exam Weight | 20%

- » Forward Contracts
- » Exchange Traded Futures
- » Energy Swaps
- » Energy Options
- » Real Options
- » Commodity Spread Trading

MODELING ENERGY PRICES

Exam Weight | 10%

- » Introduction to Energy Modeling
- » Data Analysis and Essential Statistics
- » Spot Price Behavior
- » Forward Curve Modeling
- » Estimating Price Volatility

DAY 2

Financial Risk

Course leader: Mark Cummins

RISK MANAGEMENT FUNDAMENTALS

Exam Weight | 15%

- » Value-at-Risk and Stress Testing
- » Counterparty Credit Risk
- » Enterprise Risk Management
- » Case Studies in RM Failure

Physical Risk

Course leader: Mark Cummins

HYDROCARBON RESOURCES

Exam Weight | 25%

- » Exploration and Production
- » Crude Oil and Refining
- » Natural Gas, LNG and Shale Gas
- » Coal

DAY 3

Physical Risk

Course leader: Alberto Berizzi

ELECTRICITY

Exam Weight | 10%

- » Electricity Generation
- » Hydroelectric Power
- » Nuclear Power
- » Fundamentals of Electricity
- » Distribution and Trading
- » Load Forecasting

RENEWABLE ENERGY

Exam Weight | 10%

- » Economics of Renewable Energy
- » Investment in Renewable Energy
- » Sustainable Energy and Biofuels
- » Current Trends in the Carbon Market
- » Emissions Trading Models

The remaining 10% of Exam Weight are current issues in Energy. Exact references will be distributed during the course.

COURSE LEADERS



Alberto Berizzi

Politecnico di Milano

Alberto Berizzi, PhD, is a Full Professor of Electrical Power Systems at the Department of Energy, Politecnico di Milano. His publication record includes more than 130 articles covering a variety of fields within Electrical Engineering; these range from power quality and security analysis, from short-circuit studies to mathematical problems related to sparsity. Alberto Berizzi is also an active consultant on power systems and head projects with EDF, Edison, ENEL, Siemens, and Terna. He regularly participates to research projects sponsored by the Italian Ministry of Research.



Mark Cummins

Dublin City University

Mark Cummins, PhD, is a Lecturer in Finance at the Dublin City University Business School. He holds a PhD in Quantitative Finance, with specialism in the application of integral transforms and the fast Fourier transform (FFT) for derivatives valuation and risk management. Mark has previous industry experience working as a Quantitative Analyst within the Global Risk function for BP Oil International Ltd., based in London. Primary responsibilities included derivatives and price curve model validation and development, with a global remit across BP's oil, gas, power, commodities and carbon emissions activities.



Viviana Fanelli

University of Bari

Viviana Fanelli, PhD, is a Professor of Finance at the University of Bari "Aldo Moro" and regular Lecturer in Energy Finance at MIP Business School in Milan. She has a Ph.D in Mathematical Methods for Financial and Economic Decisions. Her research interests cover energy finance, commodity finance, interest rate theory and applications, derivative securities pricing, quantitative finance techniques, and innovation diffusion models. She regularly publishes in academic journals, including Nonlinear Analysis RWA and European Journal of Operational Research. Since 2008 she has been appointed as a course leader in the Advanced Program in Energy Finance at MIP.

PRATICAL INFORMATION

LANGUAGE

Course is delivered in English

SCHEDULE

Each day 09.00-18.00, including breaks

REGISTRATION

Process: www.energisk.org

CONTACTS

E-mail: contact@energisk.org

Web: www.energisk.org

MULTIPLE REGISTRATION DISCOUNT

Register two or more people from the same company and receive an additional 10% discount.

FEES FOR PROFESSIONALS (*)

» Early Bird € 1559 (before 20 September)

» Standard Price € 1779

» Students registered to fulltime programs at hosting institutions € 559

DOCUMENTATION

Participants receive documentation in a self-contained and comprehensive manual.

London

DATES

16-18 October 2013

LOCATION

Cass Business School
London, United Kingdom

ORGANIZING INSTITUTIONS

Energisk SAS, Paris, in collaboration
with Cass Business School, London

Geneva

DATES

24-26 October 2013

LOCATION

University of Geneva
Geneva, Switzerland

ORGANIZING INSTITUTIONS

Energisk.org, Paris, in collaboration
with University of Geneva

(*) FEES FOR PRIVATE INDIVIDUALS: Special tariff (please contact us)

ABOUT THE ORGANIZERS

ENERGISK.ORG

Energisk.org is a research and consulting network in all areas of energy and commodity finance. A team of highly ranked academics and practitioners works around conception and implementation of tailor-made ready-to-use solutions for a variety of problems encompassing real-time risk assessment, risk mitigation, model building, scenario simulation, physical and financial asset valuation. Energisk developed the new striking technology of FloRisk® that boosts industrial and financial risk monitoring of energy and multi-commodity positions.

UNIVERSITY OF GENEVA

The University of Geneva (UNIGE) is dedicated to thinking, teaching, dialogue and research. With 16'000 students of more than 140 different nationalities, it is Switzerland's second largest university. UNIGE offers more than 280 types of degrees and more than 250 Continuing Education programmes. UNIGE is also host and co-host to six National Centres of Competence in Research. Just like the city of Geneva itself, the University enjoys a strong international reputation, both for the quality of its research (it ranks among the top institutions among the League of European Research Universities) and the excellence of its education.

CASS BUSINESS SCHOOL

An integral part of City University London, Sir John Cass Business School is among the global elite of business schools that hold the gold standard of 'triple-crown' accreditation from the Association to Advance Collegiate Schools of Business (AACSB), the Association of MBAs (AMBA) and the European Quality Improvement System (EQUIS). Consistently ranked amongst the best business schools and programmes in the world which, coupled with an established 40-year reputation for excellence in research and business education, enables Cass to attract some of the best academics, students and businesses worldwide into an exclusive Cass network.

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