

Professional Diploma and Training

Fundamentals of Enterprise Risk Management - FERM *A Quantitative Approach*

This 5-day intensive course teaches

Principles, concepts, and frameworks to provide practical guidance to identify and assess risks, introducing a broad quantitative risk management perspective across oil and gas and energy companies. The aim is to help professionals identify and quantify the impact that Enterprise Risk Management (ERM) has across operations, finance, projects, regulation, logistics, security, and the like.

- Learn how to identify and proactively evaluate risk and opportunities, be able to make better-informed decisions and achieve business objectives and increase business resilience.
- Understand the main concepts and frameworks for Enterprise Risk Management (ERM), Governance, Risk and Compliance (GRC), and Business Continuity Plan (BCP).
- Analyse the role of shareholders, managers and stakeholders by identifying risks and opportunities and presenting these in a fully integrated risk management system and strategic business plan.
- Examine and understand the strengths and limitations of traditional risk identification and risk assessment approaches to be able to make informed decisions.
- Implement basic uncertainty analysis, applied analytics (tornado and sensitivity analysis), and risk quantification, whilst understanding how risk profiles and forecasting can help to achieve better business outcomes.

Complemented with case studies and examples, the diploma in FERM is endorsed by the **IIPER's Skills Certification** scheme. Therefore, the FERM makes use of leading risk management technologies provided by **OSL Risk Management (UK)** and **Real Options Valuations (USA)** as part of the accredited training program.



Delivered in Partnership with:

International Institute of Professional Education and Research (IIPER)

Supporting Organizations:

OSL Risk Management (UK), and Real Option Valuations (US)

Who should attend?

The FERM is a practical hands-on online training course designed for managers, consultants, auditors, and risk practitioners who deal with the challenges and complexities of risk management and business decisions on a daily basis.

Following a quantitative perspective, this course will provide fundamental risk identification and assessment knowledge. The FERM follows a general approach in risk quantification, ideal preparation for those professionals interested in pursuing the international **CQRM Accreditation - Certified in Quantitative Risk Management**, provided by the IIPER and recognised for multiple professional bodies (PMI, IChemE, Energy Institute, IRM, ACPA, CFA, among others).

Learning outcomes

By the end of this course you will:

- Learn the basic concepts and definitions of risk management and uncertainty analysis in the context of compliance, regulation, international standards, and requirements to achieve the organization's objectives.
- Understand how to identify, assess, mitigate and hedge risk in business to maximize opportunities and increase business resilience.
- Understand the importance of leadership, communication, risk culture, risk quantification, and business strategies in an integrated risk management system.
- Identify critical risk factors (risk identification vs risk quantification) and apply fundamentals of risk analytics (Tornado Analysis and Sensitivity Analysis) to integrate business responses.
- Leverage your IT skills for Risk Management using Risk Simulator and ROV ERM (Enterprise Risk Management).

Delegates will be provided with:

- IIPER's CPD Skills Certificate.
- FERM support material (pdf files and excel models).
- 1-year Full License on the PEAT- Enterprise Risk Management.

Course outline

Day 1: Fundamentals of Enterprise Risk Management

- Introduction to Enterprise Risk Management.
- Risk Identification and Risk Registers.
- Governance Risk and Compliance.
- Introduction to Risk Quantification.
- Case Study and Application.

Day 2: Enterprise Risk Management

- ISO 31000 vs COSO ERM
- Challenges in IRM/ERM
- Risk Appetite and Risk Tolerance.
- An Analytical Approach to ERM (Company Settings)
- Case Study and Application

Day 3: ERM – ESG – Energy Integration

- Climate Change and GHG Emissions.
- ESG Risk and Decarbonization.
- Data Integration and Risk Quantification.
- Case Study and Application.

Day 4: Decision-Making Support

- Decision Support Monitoring and Reporting.
- Internal Auditing vs External Auditing
- GOPAD Risk Management
- Decision Support Monitoring and Reporting
- Case Study and Application

Day 5: Group Project and Presentations

- Practical Assessment: risk management (process, strategy, and objective-setting)
- Practical Assessment, Report and Presentation

Training board

Academic Director

Prof. Dr Johnathan Mun is the IIPER-Certified in Quantitative Risk Management Program Director, coordinating worldwide executive programs, professional accreditations, and education standards in quantitative methods and risk management, and also enhancing high-quality teaching among the IIPER Certified Trainers.

As the founder and CEO of Real Options Valuation, Inc., Dr Mun is responsible for developing its suite of analytical software products and consulting. As the software's creator, with over 12 patents and 10,000 pages of copyrighted materials, he teaches Risk Analysis, Real Options for Analysts, Risk Analysis for Managers, CQRM, and other courses. He has written over 20 books on the topic of risk. Dr Mun has consulted on risk analysis, valuation, and real options for many Fortune 500 firms from 3M, BP, Chevron, Airbus, and Boeing to GE, Motorola. and the U.S. government including the Department of Defense. He is also a full U.S. Naval Postgraduate School professor and has held other adjunct professorships at various universities.

Program Director

Prof. Dr Elvis Hernandez-Perdomo is a Senior IIPER-CQRM Certified Trainer with over twenty years of experience in risk management, project management, corporate governance, economic valuations, and real options in energy-related companies. He is the Director of OSL Risk Management (UK), Senior Risk Specialist at OSL Consulting Engineering, and Senior Executive Consultant at Real Options Valuations, Inc. (ROV - USA), working on real options, risk management, Monte Carlo Risk Simulation, optimisation, and business intelligence analytics.

Dr Elvis has a PhD in Finance (University of Hull), a PhD in Engineering Science, an MSc in Finance, an MSc in Operational Research & Statistics, and a BS in Economics, and is CQRM Accredited and Associated in Business ERP by SAP Corporation. He is also a Visiting Professor and Fellow at the Academy of Higher Education and Energy Institute in the UK, with academic articles published in international peer-review journals in reliability systems, energy markets, engineering, risk, uncertainty, and the like.

Bespoke in-house courses

Bespoke courses can be tailored to the needs of your own organisation and can be held on your premises.

Course Delivery and Support

- This accelerated and intensive course will be delivered as follows 9.00-12.00 and 13.00-16.00, with intervals of 10 minutes after each hour of training.
- The instructor will provide a two-hour session after the training (optional) to discuss potential risk quantification approaches and applications to the Client's operational or managerial activities. Please note that these sessions are for clarification, questions & answers, and software support.
- Each participant will receive a 1-year license for the Project Risk Management, Enterprise Risk Management (Risk Registers), and Risk Simulator solution at no additional costs. They will enhance learning by doing during and after the training.
- Note that full packages of licenses can be purchased separately for an annual fee. Visit www.aeonxgroup.com for further details.

FERM

Fundamentals of Enterprise
Management Risk



In accordance with sponsors and professional bodies, this training provides a "16 CPDs IIPER Skills Certification" on completion of the

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