

CERTIFIED IN QUANTITATIVE RISK MANAGEMENT (CQRM)

QUANTITATIVE METHODS, DECISION ANALYTICS AND REAL OPTIONS

In-ClassRoom

CQRM
Certified in Quantitative
Risk Management



Seminars and
conferences

Online

CQRM | **VIRTUAL**
Certified in Quantitative
Risk Management



www.OSLAnalyticsAcademy.com


CQRM
Fellowship


E-Books


Industry
applications


Software


Analytical
Tools

EVENT

The **CQRM** helps professionals acquire updated and practical knowledge in risk management from a quantitative approach to measure, analyse and make decisions.

CQRM helps individuals to maximize and update their skills, knowledge, and experience in quantitative methods and risk management, ensuring clear paths to success within their current role and progression to future ones.

The **CQRM** skills and knowledge can be applied in different sectors such as **Banking, Finance, Energy, Consulting, Mining, Health, Defence, Government, Research, Insurance, Infrastructure, Manufacturing, Logistics**, among others.



“★★★★★ - The CQRM course has shown me that Risk Management is more than what we usually know. The Certification in Quantitative Risk Management accreditation is not just the icing on the cake. It is the cake itself.”

MD (CEO) at Vanguard Life
George Kojo Addison

CQRM IN-CLASSROOM



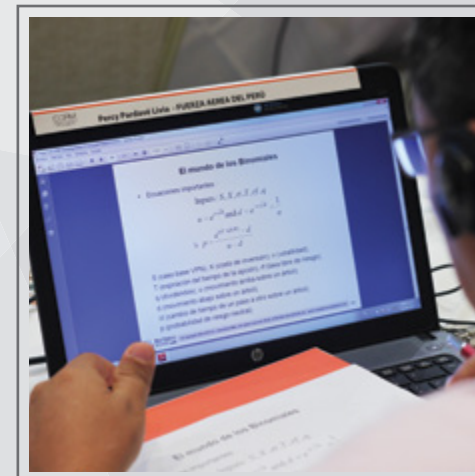
CQRM
Certified in Quantitative
Risk Management

A **4-day intensive training program** on Integrated Risk Analysis to complete the requisite in-class work and obtain the fully accredited CQRM designation.

Locations:

- EURiskConvention
- AFRiskConvention
- Institute of Risk Management (IRM - UK)
- Energy Institute (EI - UK)

[See more here](#)



In 8 Weeks, Online

By Investing 5-7 Hours per week you become CQRM qualified.

Complete Access to the materials, videos, excelmodels, case studies, and future updates.

[See more here](#)

CQRM
Certified in Quantitative
Risk Management | **VIRTUAL**



GENERAL STRUCTURE – CQRM ONLINE

Get Your CQRM Accreditation from anywhere and any time
8 Weeks, Online | 5-7 hours, per week

More Information [here.](#)



PRE-CQRM FUNDAMENTALS

The PRE-CQRM covers fundamental topics in quantitative risk management, optimization, forecasting, and real options and helps you best prepare for the CQRM training and online examination.



CQRM LEVEL I

Helps to understand the theory and application of Monte Carlo Simulation, Applied Statistics, Linear and Nonlinear Correlation, Bootstrapping, and Model Analytics.



CQRM LEVEL II

Explores and covers the theory, application, and hands-on modelling of optimization as well as predictive modelling and forecasting, including Time-series models, Regression Analysis, ARIMA and GARCH models, and Stochastics Processes.



CQRM LEVEL III

This CQRM Level III course in Real Options Analysis covers the theory, application, case studies, as well as hands-on modelling and valuation of strategic real options.



CQRM REVIEW

This section reviews all material for the certification course and exam. There are three 30-minute review sessions that will help you best prepare for the CQRM online examination.



CQRM EXAM

To help you prepare for the final exam, we offer practice questions and a mock exam. Then, in advance of the exam, take a mock exam, which mimics the CQRM exam experience as closely as possible.

Maximize and update your skills, knowledge, and experience in quantitative methods and risk management, ensuring clear paths to success within your current role and progress to future ones.

CQRM

Certified in Quantitative
Risk Management

Why attend this certification?

- ✓ To be certified internationally as a Quantitative Risk Manager (CQRM-IIPER).
- ✓ Take advantage of the opportunity to learn from world experts who have outstanding credentials and extensive practical experience in quantitative methods and risk management.
- ✓ Understand how to make more informed decisions in times of uncertainty and achieve better business outcomes.
- ✓ Update and immerse yourself in techniques that allow you to understand the past and the present and to more accurately forecast the future.
- ✓ To model industry-specific problems and implement risk analysis using Risk Simulator and Real Options SLS, capable of analysing large volumes of information and working with the latest implementation of risk management analytics.

CERTIFIED IN QUANTITATIVE RISK MANAGEMENT (CQRM)

CQRM is an international accreditation in quantitative risk management offered by the International Institute of Professional Education and Research (IIPER).



IIPER's CQRM certification is accredited by the National Certification Commission, and IIPER is a member of the AACSB (Association for the Advancement of Collegiate Schools of Business), one of the largest accreditation agencies of business schools worldwide.



The CQRM is endorsed by the Project Management Institute (PMI) allowing participants to obtain 30 professional development units (PDU) upon completion of the course.



Completing a 4-day intensive training program on Integrated Risk Analysis is a requisite (in-class work) to obtain the fully accredited CQRM designation.



By participating in the CQRM, attendees will have elements to analyse and data to interpret for risk analysis, and will learn to understand the results obtained as well as make decisions based on the simulation tools, optimization, and real options techniques.



PROFESSIONAL DEVELOPMENT

CEU, CPD, PDU AND CPE CREDITS

In accordance with the standards of the National Registry of CPE Sponsors, CPE credits have been granted based on a 50-minute hour.

In accordance with the standards of the Project Management Institute, PDU credits have been granted as specified below.

In accordance with Continuing Education standards, CE credits are granted as specified below.

In accordance with Continuing Professional Development standards, CPD credits are granted as specified below.



30 PDU

Project Management Institute (PMI): **30 PDU Credits** for **PMP** Certification Holders; Certified **PfMP, PgMP, PMI-ACP, PMI-PBA, PMI-SP**, and **RMP** are awarded **30 Credits**



CFA Institute®

39 CE

Institute of Chartered Financial Analysts (ICFA): **39 Continuing Education CE Credits**



30 CPD

Energy Institute (EI): **30 points for Continuing Professional Development**



AICPA®

39 CPE

American Institute of **CPA** (AICPA): Specialized Knowledge Area Group Live for **39 CPE Credits**



IChemE

30 CPD

Institution of Chemical Engineers (IChemE): **30 credits for Continuous Professional Development**



30 CPD

Institute of Risk Management (IRM) **30 credits for Continuous Professional Development**



CQRM

Certified in Quantitative Risk Management

- ✓ In accordance with CPD, PDU and CPE Sponsors and accredited professional bodies, IIPER is committed to offering high-quality continuing professional education.
- ✓ CQRM helps individuals to maximize and update their skills, knowledge and experience in quantitative methods and risk management, ensuring clear paths to success within their current role and progression to future ones.
- ✓ It enhances learning from colleagues or shared learning from networking, exploring new technologies, and applying new methods and analytics to make informed decisions.
- ✓ CQRM combines theory and practice, case studies and applications, ideas and techniques that help professionals to manage their own learning and growth, and to perform competently in their day-to-day activities.

Register [here](#)

TOPICS & FRAMEWORK

LEVEL I

MODULE 1: Introduction to Risk Analysis

- Chapter 1: Introduction to the Training and What to Expect
- Chapter 2: How Are Business Decisions Made?
- Chapter 3: What Is Risk and Why Should Risk be Considered?
- Chapter 4: Overview of Risk Analysis Software Applications

MODULE 2: Monte Carlo Simulation with Risk Simulator

- Chapter 1: Overview of Risk Simulator Software
- Chapter 2: Profiling, Assumptions, Forecasts, and Running Simulations
- Chapter 3: Interpreting the Forecast Statistics
- Chapter 4: Simulation Run Preferences and Seed Values
- Chapter 5: Running Reports, Saving and Extracting Simulation Data

MODULE 3: Advanced Simulation Techniques

- Chapter 1: Correlating and Truncating Distributions
- Chapter 2: Alternate Parameters
- Chapter 3: Multidimensional Simulations
- Chapter 4: Distributional Fitting
- Chapter 5: Due Diligence and Pitfalls in Simulation

MODULE 4: Simulation and Analytical Tools

- Chapter 1: Static Tornado and Spider Charts
- Chapter 2: Dynamic Sensitivity Analysis and Scenario Analysis
- Chapter 3: Hypothesis Test on Different Distributions
- Chapter 4: Nonparametric Bootstrap Simulation

LEVEL II

MODULE 5: Optimization with Risk Simulator

- Chapter 1: Introduction to Optimisation
- Chapter 2: Continuous Optimisation
- Chapter 3: Integer Optimisation

LEVEL II

MODULE 6: Forecasting

- Chapter 1: Overview of Forecasting Techniques and Data Types
- Chapter 2: Forecasting Without Data
- Chapter 3: Time-Series Analysis Forecasting
- Chapter 4: Nonlinear Extrapolation
- Chapter 5: Multivariate Linear and Nonlinear Regression Analysis
- Chapter 6: Stochastic Processes
- Chapter 7: Advanced Forecasting: Box-Jenkins ARIMA and Auto ARIMA, GARCH, J-Curve, S-Curves, Markov Chains, Data Diagnostics, Statistical Properties, Basic Econometrics

LEVEL II


MODULE 7: Real Options Analysis: Theory and Background

- Chapter 1: Real Options: What, Where, Who, When, How, and Why?
- Chapter 2: Sample Applied Business Cases
- Chapter 3: Overview of Different Options Valuation Techniques
- Chapter 4: Risk-Neutral Probability Technique
- Chapter 5: Solving a Basic European and American Call Option
- Chapter 6: Using Excel to Solve a Basic European and American Call Option
- Chapter 7: Abandonment, Expansion, Contraction, and Chooser Options

MODULE 8: Real Options Analysis: SLS (Super Lattice Solver) Application

- Chapter 1: Overview of the Different SLS Modules and Volatility Estimates
- Chapter 2: Volatility Estimates
- Chapter 3: Options with Changing Inputs and Customised Exotic Options
- Chapter 4: MSLS: Multiple Sequential Compound Options
- Chapter 5: MNLS: Solving Mean-Reverting, Jump-Diffusion, and Dual-Asset Rainbow Options using Trinomial, Quadrinomial, and Pentanomial Lattices
- Chapter 6: Framing Real Options—Structuring the Problem
- Chapter 7: The Next Steps...

**CQRM REVIEW FOR THE EXAMINATION
 CQRM EXAM**

More Information 

DR. JOHNATHAN MUN,

PH.D., MS, MBA, BS, CQRM, CRA, FRM, CFC, MIFC



Chairman of IIPER
CEO of Real Options Valuation Inc.
IIPER-CQRM Program Director

Prof. Dr. Johnathan Mun, Chairman of the IIPER, is the founder/CEO of Real Options Valuation Inc., and is responsible for the development of its suite of analytical software products, consulting, and training services. As the software's creator, with more than 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 management.

Dr. Mun has consulted on risk analysis, valuation, and real options for many Fortune 500 firms from 3M, Airbus, and Boeing to GE, Motorola, and the U.S. government including the Department of Defense as well as other state and federal agencies.

He was formerly Vice President of Analytics at Decisioning, Inc. (Oracle), and was a Consulting Manager in KPMG's Global Financial Strategies practice.

Dr. Mun is also a full professor at the U.S. Naval Postgraduate School and a professor at the University of Applied Sciences and Swiss School of Management (Zurich and Frankfurt), and he has held other adjunct professorships at various universities.

He has a Ph.D. in finance and economics, an MBA in business administration, an MS in the area of management science, and a BS in applied sciences. He is certified in Financial Risk Management (FRM), Certified in Financial Consulting (CFC), and Certified in Quantitative Risk Management (CQRM).

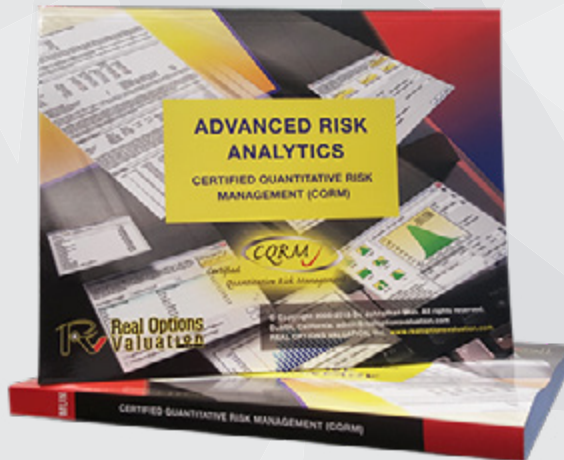


Prof. Dr. Mun is the IIPER-CQRM Program Director coordinating worldwide executive programs, professional accreditations and education standards in quantitative methods and risk management, and also enhancing high-quality of teaching and continuing education among the IIPER Certified Trainers.



INCLUDED SUPPORT MATERIAL

IT SPONSORS OF THE CQRM ACCREDITATION



E-Book

ADVANCED RISK ANALYTICS

Containing the slides that will be seen during the Certification, therefore, it is focused on learning the specific ideas and methodologies that are developed in the International Certification in Quantitative Risk Management (CQRM).

Powerful Excel add-in software used for **applying simulation, forecasting, statistical analysis, decision trees, econometric analysis and optimisation** in your existing spreadsheet models. Risk Simulator was developed specifically to be extremely easy to use. For instance, running risk simulations is as simple as 1-2-3 (set an input, set an output, and run); and performing forecasting (e.g. auto-econometrics, GARCH models, stochastic processes, time-series, multivariate analysis) relies on simple clicks in the software. Users can effectively focus on analysis, reports and numerical results.

Standalone software with also Excel add-in **capabilities for analysing and valuing real options, financial options, exotic options and employee stock options**. All inputs could be incorporated into custom spreadsheet models, allowing the creation of your own à la carte fully customised models, where all the mathematical equations and functions are visible. Consequently, option valuations and results are easier to understand and explain, allowing users to value financial and real assets, thereby quantifying flexibility and mitigating uncertainty.



For more information or to **download these software solutions**, visit us at:

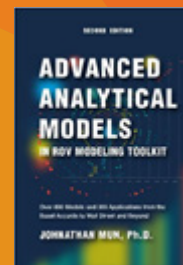
www.oslriskmanagement.com



“ Be part of the global network of quantitative risk management professionals ”



CQRM
Certified in Quantitative Risk Management



Industry Applications



Integrated Methods



“★★★★★ - The most relevant and valuable course that I've ever attended. Quantitative Risk Management is central to business survival and growth.”

Senior Vice President at Mubadala
Dr. Adrian Deazle



“★★★★★ - Quantitative Risk Management is central to business survival and growth, and it is becoming more and more a relevant for corporate governance practices.”

Managing Director
Frank Moxon



“★★★★★ - I found the CQRM course very informative and interesting. The whole program was run to perfection. I would definitely recommend the course to others professionals, especially managers and decision makers.”

MD (CEO) at OSL Consulting Engineers
Alastair Robertson



“★★★★★ - I was able to develop my quantitative risk management skills to help the business. It was useful to use case studies and learn how we can apply quantitative expertise in the real world.”

Enterprise Risk Consultant
Aataullah Naser

CQRM

Certified in Quantitative Risk Management

See testimonials [here](#)

GENERAL INFORMATION

QUANTITATIVE
METHODS AND RISK
MANAGEMENT TOOLS
TO MAKE INFORMED
DECISIONS

* Email us for group and academic discounts.

* Prices do not include VAT, hotels, and transportation

In-ClassRoom	CQRM Certified in Quantitative Risk Management	£2,600 GBP / p*
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Online	CQRM Certified in Quantitative Risk Management	VIRTUAL	£1,795 GBP
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More Information [here](#)

MORE INFORMATION

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TECHNOLOGY PARTNERS



SUPPORT



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ONLINE TRAINING PLATFORM

