

CERTIFIED IN RISK MANAGEMENT

"Dr. Johnathan Mun is a brilliant and energetic instructor able to take the most difficult subjects and make them understandable and practical. Certainly the best instructor I have had in a long time."

-Curtis Ching, Director of Business Development Finance, GE Money

"Dr. Mun is able to take even the most difficult and technically challenging concepts and make them simple to understand and applicable to today's challenging and changing business environments. It is definitely one of the best seminars I have ever attended and I would rate Dr. Mun as the top lecturer in the field."

-Robert Finocchiaro, Ph.D., Director Corporate R&D Services, The 3M Com-

Attend one of our 4 Day intensive Integrated Risk Analysis seminars, complete the requisite in-class work, and obtain the fully-accredited Certified in Risk Management (CRM) designation offered by the International Institute of Professional Education and Research

"Never seen a trainer so capable!" *Hussein Alghamdi, Savola Group, Saudi Arabia*

"Excellent instructor and workshop with practical examples." *Y.L.Lee, Industrial Engineer, Seagate Technology*

"Very good training with practical examples" *Aprianto Sommantri, Engineer, Chevron Texaco, Indonesia*

"Dr. Johnathan Mun has been able to put together both the learning approach and teaching materials that make the changing of our cognitive schema of how we manage risk in a digestible form. Since the future of business is focused on vigilant decision making, the approach that Dr. Mun utilizes is by far one of the most effective mechanisms for supporting corporate sustainability."

Kenneth English, Director Emerging Technologies, The Timken Company

"Dr. Mun has the ability to take the rocket out of the science and bring complicated matters very much down to earth in a matter of fact and memorable way. Put simply you come away from his sessions not only having learnt a great deal, but starting to use it in practice immediately."

Robert Fourt, Partner, Gerald Eve Consulting (UK)

RO Real Options
Valuation

Real Options Valuation, Inc. is the global preferred provider for the International Institute of Professional Education and Research™ (IIPER) and we have been granted the rights to teach CRM certification courses and upon completion of our 4-day seminar and the successful completion of a live test administered on the last day, participants will be granted the CRM designation! Real Options Valuation, Inc. is one of the three organizations in the world with rights to grant this CRM designation.

So, how do our seminars compare to others? Surprisingly, our 4-day training seminars are **lower in price** than other so-called simulation courses, and at the completion of the training, you will receive your **CRM designation**, something that other firms *cannot* provide. In addition, the training will be conducted by the exclusive CRM-designated trainer, Dr. Johnathan Mun, founder and CEO of Real Options Valuation, Inc.; a professor; a world-renown expert on risk analysis; author of 7 books on the topics of risk, valuation, and strategy; as well as the developer of our Risk Simulator and Real Options SLS software. Compare that to being trained by a fresh college graduate with less than two years of experience at other firms or a general MBA with insufficient grounding in the theory/application of risk analysis. You will not only learn the practical applications of risk analysis, but also the theoretical underpinnings of these applications.

ADVANTAGES

The key advantages of attending one of our seminars are as follows:

- Obtain the **Certified Risk Analysts (CRM)** designation.
- Learn from real experts in the field with the best credentials and hands-on expertise and experience, not from a group of unqualified trainers.
- Get it straight from the source! The main seminar instructor is the creator of the Risk Simulator and Real Option Super Lattice Solver (SLS) software, the author of 7 books on the topics of risk modeling, real options, and valuation. He is also a professor in finance and economics, a consultant to many multinationals, and is known globally for his expertise in risk analysis and real options.
- Get free books, training models and examples, videos, course slides, and many other getting started materials.

The International Institute of Professional Education and Research (IIPER) is a global institute with partners and offices around the world including the United States, Switzerland, Hong Kong, Mexico, Portugal, Singapore, Nigeria, Malaysia, and others. IIPER's CRM certification is accredited by the National Certification Commission and IIPER is a member of the prestigious AACSB (Association for the Advancement of Collegiate Schools of Business). AACSB is one of the largest U.S. accreditation agencies recognized by the U.S. Department of Education, and has over 500 business schools around the world as its members. Further, IIPER's seminars are approved by the Project Management Institute (PMI) and participants can also obtain 30 professional development units (PDU) upon completion of the course. IIPER's International Standards Board comprises professors from various universities including Lehigh University (Pennsylvania), University of Applied Sciences (Switzerland), Naval Postgraduate School (California), University of Missouri (Kansas City), and others. IIPER also has strategic alliances and collaborations with various research institutions around the world.

CRM SEMINAR TOPICS

The CRM seminar covers the following topics in detail, through lectures, discussions, hands-on analytical modeling, and software applications.

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
- Chapter 3: Hypothesis Test on Different Distributions
- Chapter 4: Nonparametric Bootstrap Simulation

MODULE 5: 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 Regression Analysis
- Chapter 6: Stochastic Processes
- Chapter 7: Box-Jenkins ARIMA

MODULE 6: 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 7: Real Options Analysis: Application with SLS Software

- Chapter 1: Overview of the Different SLS Modules and Volatility Estimates
- Chapter 2: Volatility Estimates
- Chapter 3: Options with Changing Inputs and Customized 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...

MODULE 8: Optimization with Risk Simulator

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

EXPERTISE

Dr. Johnathan Mun is the software's creator and teaches the CRM course. He has consulted for many Fortune 500 firms on risk analysis, valuation, and real options, and has written a number of books on the topic, including *Real Options Analysis: Tools and Techniques, 2nd Edition* (Wiley Finance, 2005), *Real Options Analysis Course: Business Cases* (Wiley Finance, 2003), *Applied Risk Analysis* (Wiley, 2003), *Valuing Employee Stock Options Under 2004 FAS 123* (Wiley, 2004), *Modeling Risk: Applying Monte Carlo Simulation, Real Options Analysis, Forecasting and Optimization* (Wiley, 2006), and others. He is the founder and CEO of Real Options Valuation, Inc., and is responsible for the development of analytical software products, consulting, and training services. He was formerly the VP of Analytics at Decisioneering, Inc., and was a Consulting Manager in KPMG's Global Financial Strategies. Dr. Mun is also a full professor at the U.S. Naval Postgraduate School and a professor at the University of Applied Sciences (Zurich and Frankfurt). He has a Ph.D. in finance and economics, an MBA in business administration, an MS in management science, and a BS in applied sciences. He is certified in Financial Risk Management (FRM), Certified in Financial Consulting (CFC), and Certified in Risk Management (CRM). He currently resides in California.

