MARKET RISK MANAGEMENT AND VAR MODELS MASTERCLASS

LIVE ONLINE / CLASSROOM PROGRAM



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Course Overview

Risk management is the process of identifying and measuring risk and ensuring that the risks being taken are consistent with the desired risks. The process of managing market risk relies heavily on the use of models. A model is a simplified representation of a real world phenomenon. Financial models attempt to capture the important elements that determine prices and sensitivities in financial markets. In doing so, they provide critical information necessary to manage investment risk.

At BIZENIUS Masterclass we will help you understand value at risk (VaR), discuss three primary approaches to estimating value at risk, and cover the primary advantages and limitations as well as extensions of value at risk. We then address the sensitivity measures used for equities, fixed-income securities, and options and also cover historical and hypothetical scenario risk measures. Next, we discuss the use of constraints in risk management, such as risk budgeting, position limits, scenario limits, stop-loss limits, and capital allocation as risk management tools. Lastly, we describe various applications and limitations of risk measures as used by different types of market participants and summarize our discussion. This masterclass will equips professionals with the tools and insights necessary to safeguard financial stability amidst the ever-changing market dynamics.

Key Factors Affecting VaR Accuracy and Reliability





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BECOME AN EXPERT

Benefits of Attending

- Market Risk Management Frameworks & Strategies
- Identify best-practice frameworks for assessing market risk.
- Estimate Value at Risk and use in a risk management strategy
- Explain the use of value at risk (VaR) in measuring portfolio risk
- Organizational set up for Market Risk Management
- Models of Market Risk Management and Techniques used.
- Risk Management Tools for Market Risk
- The Role of Back Testing for VaR
- The evolution of Basel capital requirements for market risk
- Best Practices and Regulatory Requirements
- Real-world Examples of VaR Implementation

MARKET RISK MANAGEMENT – FOCUS & IMPACT AREAS





Who Should Attend :

The in-house training version may be tailored to your specific industry need. This course is suitable for novice and experienced participants. It is designed robustly to give you both basic concepts and principles for novice participants as well as ample opportunity for experienced participants to amplify the principles and concepts through reflection on your own work experience.

- Market Risk Management
- Credit Risk Management
- Operational Risk Management
- Risk Methodology
- Risk Analysis
- Model Validation
- Regulatory and Economic Capital Basel III
- Counterparty Risk
- Treasury Team
- ICAAP and ILAAP

- Financial Advisor
- Stress Testing
- Internal Audit
- Finance and Treasury
- Regulation Compliance
- Financial Institutions Advisory
- Bank Supervision & Bank Regulation
- Financial Stability and Economic
- Risk team
- Reporting Team



After Attending This Course You Will Be Able To:

- 1.Acquire strategies and techniques for effectively managing market risk, ensuring alignment with risk tolerance and capacity.
- Learn different Models of Market Risk Management and Techniques used.
- Governance structure, Role of Market Risk Management Department, models and examples.
- Cultivate a mindset of continuous improvement in market risk management practices, staying abreast of evolving market dynamics and emerging risks.
- Understand the unique challenges of market risk management for fund managers
- Statistical concepts such as Probability Distribution, Volatility, Correlation and Regression
- Model market factors such as interest rates, equity, and commodity prices.
- Organizational set up for Market Risk Management
- Estimate and interpret VaR under the parametric, historical simulation, and Monte Carlo simulation methods
- Describe sensitivity risk measures and scenario risk measures and compare these measures to VaR

AGENDA

Understanding Market Risk Management:

- Market Risk Loss for Banks
- Market Risk Framework
- Organizational set up for Market Risk
 Management
- Types of Market Risk
- Stand-alone risk and Portfolio Risk

BCBS guidelines on IRR management:

- Components of interest rates as given by (BCBS)
- Components of a non-traded pure loan
- Measurement methods of IRRBB
- Earnings based measure
- Economic value based measure
- Limitations in IRRB estimation
- Management and control of Interest Rate
 Risk
- BCBS Principles of IRR Management

Risk Management Tools for Market Risk:

- Defining a returns process for a price series
- Modelling the returns process
- Asset/liability size and equivalents
- Sensitivities of positions to market moves
- Arbitrage principles for pricing and sensitivities – Forward pricing and probability

Stress Testing:

- Objectives
- Need for Stress Testing
- Incorporating into Market Risk Models
- Implementation
- Evaluating Stress Tests

Tools and techniques for measurement

of market risk:

- Measurement of market risk
- Modified Duration & Convexity
- PVBP
- VaR Approach
- Simulation
- Stress testing

Market Risk Models:

• Objectives

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- Introduction
- Parametric Models
- Historical Simulation Models
- Monte Carlo Simulation Models
- Value at Risk Implementation
- The process of value at risk implementation

Portfolio Market Risk Tools:

- Aggregation of positions From the many to the few
- Portfolio effects from correlation and diversification
- Composite risk measures
- VaR and other portfolio risk models

Scenario Analysis and Stress Tests:

- Aggregate Stress Tests
- Maximum Loss Approach
- Extreme Value Theory
- The technique of backtesting
- The different types of backtesting

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AGENDA

Understand Value at Risk (Var) :

- Understanding the Importance of VaR in Risk Management
- Value at Risk Parameters
- Role of VaR
- Regulators and VaR
- Determining VaR
- Evaluating VaR
- Application of VaR

Value at Risk-I: VaR

- The concept of Value at Risk
- The concept of trading and banking book
- The various methodologies of estimating VaR and their strengths and weaknesses
- The comparison between the strength and limitation of VaR

Value at Risk-II: VaR

- The computation of VaR of foreign exchange spot, foreign exchange options positions, common shares/stocks, fixed income portfolio including portfolio
- The various applications of VaR

Regulator's guidelines for measurement and management of IRR:

- Methods of Interest Rate Risk Measurement
- Traditional Gap Analysis [TGA] Model
- Duration Gap analysis [DGA] Model
- Statement of Interest Rate Sensitivity Time
 buckets
- Reporting of the Interest Rate Risk position to
 Regulators

Description of Advanced VaR Models:

- The various emerging forms of VaR viz., Component VaR and Del VaR
- The impact on individual trades on Total VaR using these forms
- The advancements in Monte Carlo
 Simulation
- The variance reduction techniques employed for Monte Carlo Simulation
- Real-world Examples of VaR
 Implementation
- Comparing Risk Measurement Techniques
- Best Practices and Regulatory Requirements
- Key Factors Affecting VaR Accuracy and Reliability
- The Pros and Cons of VaR as a Risk Measurement Tool

Risk Adjusted Performance Measurement:

- Understand concept and need for risk adjusted performance measurement
- Risk capital and details of the measures for risk capital viz., revenue (or earnings) volatility, Earnings at Risk (EaR), and asset volatility - Value at Risk (VaR)
- The importance of capital allocation in risk adjusted performance measurement and the factors that affect them



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- Capricorn Group Limited
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