



Online Professional Certificate in Risk Management

The acknowledgment that risk exists in all investment is the first step in financial wisdom. The understanding that, although risk cannot be eliminated, it can be reduced through proper management is a big second step. These courses give a solid grounding in risk analysis, assessment and management.

Obtain the prestigious New York Institute of Finance Professional Certificate to help you meet your professional and personal goals. The Professional Certificate Programs are comprehensive in scope and offer you a wide variety of courses to choose from. In addition, you will receive continuing professional education credits to insure you are keeping up to date with your professional requirements.

All courses must be completed within one year with a score of at least 70% in each module.

Targeted Audience

Risk managers and assistants, trading assistants, finance professionals, auditors and controllers.

Special Offer

Save over 10% off regular class tuition by registering for this program.

Advance Preparation

No advance preparation required.

Prerequisites

Basic familiarity with financial products - especially derivative instruments

Learning Objectives

Students will be able to:

- . Understand the evolution of derivatives as risk management instruments
- . Comprehend the classification of Risks
- . Understand the mathematical foundations of Risk Measurement
- . Define risk, and discuss the role it plays in portfolio management
- . Discuss the relationship between risk and return
- . Identify the formula for quantifying risk using the discount rate
- . Identify steps to be taken by a due diligence team
- . Recognize the elements of the risk cycle
- . Describe the benefits of internal hedging
- . Identify factors that affect risk
- . Understand Interest rate and liquidity risk
- . Explain stress testing
- . Understand VaR
- . Price and value interest rate derivatives
- . Build hedging strategies
- . Understand operational risk scenarios
- . Measure risk sensitivities of single-name credit derivatives
- . Develop a solid understanding of portfolio credit analytics
- . Utilize techniques for the mitigation of pre-settlement/settlement risks
- . Understand the basics of Basel II

Follow-Up Courses

Online Professional Certificate in Bank Branch Management

Online Professional Certificate in Derivatives

Online Professional Certificate in Credit and Credit Risk

Online Professional Certificate in Portfolio Management

Online Professional Certificate in Capital Markets

Level: Intermediate

ceu Credits: 5

icb Credits: 100.5

icpas Credits: 39

ce Credits: 123

CPE Credits: 10

Instructional Method: Self-Study

Detailed Outline

Introduction to Derivatives and Risk Management

Topics covered include:

- . Evolution of derivatives as risk management instruments
- . Futures contracts
- . Options contracts
- . Swaps

Duration: 1 hour

Foundations of Risk Management

Topics covered include:

- . Overview of Risk Management
- . Classification of Risks
- . Capital Allocation
- . CAPM and Multifactor Models
- . Case Study - Metallgesellschaft
- . Case Study - Sumitomo
- . Case Study - LTCM
- . Case Study - Barings Bank

Duration: 6 hours

Mathematical Foundations of Risk Measurement

Portfolio Theory: Risk and Return

Topics covered include:

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- . Foundations
- . Descriptive Statistics
- . Calculus
- . Linear Mathematics and Matrix Algebra
- . Probability Theory in Finance
- . Statistics
- . Regression Analysis
- . Numerical Methods

Duration: 6 hours

- . The role of risk in portfolio management
- . Relationship between risk and return
- . Risk measurement techniques

Duration: 1 hour

Risk Considerations for Mergers and Acquisitions**Topics covered include:**

- . Risk vs. return analysis
- . Due diligence and uncovering incorrectly valued and unrecorded assets and liabilities
- . Conducting business through subsidiaries
- . Contingent liabilities
- . Turnaround candidates
- . Operational vs. financial problems

Duration: 1 hour

Risk Analysis**Topics covered include:**

- . Industry Risk
- . Business Risks
- . Financial Risks
- . Management Risks
- . Project Risks

Duration: 5 hours

Corporate Treasury Management: Interest Rate Risk Management**Topics covered include:**

- . Scope and Importance of CTM
- . Overview of Risk Management
- . Interest Rate Futures
- . Interest Rate Options
- . Case Study- Applications of Interest Rate

Derivatives

Duration: 6 hours

Risk Management Using Derivatives**Topics covered include:**

- . Introduction to Risk Management
- . Identifying Risks
- . Managing Foreign Exchange Risk Using Derivatives
- . Managing Short-Dated Domestic Interest Rate Risk using Derivatives
- . Managing Long-Dated Domestic Interest Rate Risk Using Derivatives

- . Managing Long-Dated Foreign Interest Rate Risk Using Derivatives
 - . Managing Equity Risk Using Derivatives
- Duration: 7 hours
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Market Risk Basics

Topics covered include:

- . Interest Rate Risk
- . Liquidity Risk
- . Equity Risk
- . Foreign Exchange Risk
- . Commodity Risk
- . Portfolio Risk
- . Value at Risk
- . Regulatory Issues

Duration: 9 hours

Market Risk Intermediate

Topics covered include:

- . Emerging Market Risk
- . Market Risk Models
- . Stress Testing
- . Supervisory Requirements
- . Risk Management Systems
- . Case Study - Orange County
- . Case Study - Barings Bank
- . Case Study - Metallgesellschaft

Duration: 10.5 hours

Market Risk Advanced

Topics covered include:

- . Description of Advanced VaR Models
- . Advanced Measuring Volatility and Correlation
- . Advanced Scenario Analysis and Stress Tests
- . Risk-adjusted Performance Measurement

Duration: 4 hours

Operational Risk Management

Topics included:

- . Introduction to Operational Risk
- . Basic concepts
- . Regulatory treatment of Operational Risk under Basel II
- . Operational risk in various banking sectors
- . Operational risk in insurance
- . Developing objectives and identifying risks
- . Estimating potential losses - Data
- . Estimating potential losses - Loss distributions
- . Analyzing risks

- . Loss prediction and prevention
 - . Loss control
 - . Loss reduction and risk avoidance
 - . Risk financing
 - . Measurement framework
 - . ORM in practice
 - . Enterprise - wide Risk Management (ERM)
 - . Basic and causal models
 - . Legal risk and taxation rules
 - . E-banking
 - . Systems and software
- Duration: 22 hours

Credit Risk Modeling

Topics covered include:

- . Conceptual Approaches to Credit Risk Modeling
- . JP Morgan CreditMetrics
- . CSFB's CreditRisk+
- . KMV PortfolioManager
- . Credit PortfolioView
- . Credit Portfolio Management

Duration: 6 hours

Counterparty Credit Risk

Topics covered include:

- . Overview of Derivative Products I
- . Overview of Derivative Products II
- . Credit Exposure
- . Credit Risk in Derivative Products
- . Pre-settlement and Settlement Risk
- . Netting
- . Margin and collateral requirement
- . Monte Carlo Simulation

Duration: 10 hours

Risk Management Practices

Topics included:

- . Market Risk
- . Credit Risk
- . Operational Risk

Duration: 3 hours

Value at Risk

- . Review of Statistical Concepts
- . Value at Risk - I
- . Value at Risk - II
- . Application of Analytical Techniques
- . Regulatory Issues
- . VaR Models
- . Stress Testing

- . Back Testing
 - . Risk Management Systems
 - . Description of Advanced VaR Models
 - . Advanced Measuring Volatility and Correlation
 - . Advanced Scenario Analysis and Stress Tests
 - . Risk Adjusted Performance Measurement
- Duration: 20 hours
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For more information regarding administrative policies such as complaints and refunds, please contact our offices at 212-641-6616.