

## DAY 1

Morning session (2 hours)

1. How to approach the exam?

The key elements

→ The 100 Multiple-Choice questions in 4 hours

Morning session (2 hours) Afternoon Session (4 hours)

2. Foundations of Risk Management

→ Basics about risk

→ Extreme situations

→ CAPM: Capital Asset Pricing Model

→ Performance measurements (including the Information Ratio)

→ Regression models (including multi-factors with Fama-French)

→ Ethics

Exam Weight: 20%

## DAY 2

Morning session (4 hours)

Afternoon Session (3 hours)

3. Quantitative Analysis

→ An overview of probabilities

→ Basics of statistics (including several distributions and correlation discussions):  
detailed Normal and Student's t distribution analysis

→ Bayes' applied

→ Hypothesis testing extended - that includes a multitude of tests

→ Regression analysis with among others ANOVA and issues such as multicollinearity for multiple regressions

→ Simulation discussions

Exam Weight: 20%

Afternoon Session (1 hour)

4. Recap

→ Focus on highlights

## DAY 3

Morning session (4 hours)

Afternoon Session (4 hours)

## 5. Financial Markets and Products

→ Markets organization including participants

→ Derivatives on all 4 sectors (Equity, Fixed Income, FX and Commodities):

Forward & Options. Hedging strategies versus speculative strategies

→ How futures/forwards markets work. Using futures/forwards with among others: the margin process, basis risk, number of contracts needed

→ Fixed Income with among others interest compounding, risk analysis, Bonds, MortgageBacked Securities and Rating Agencies

Exam Weight: 30%

## DAY 4

Morning session (4 hours)

Afternoon Session (4 hours)

## 6. Valuation and Risk Models

→ VaR: an overview of different approaches and relevant comparisons. Time adjustments and Confidence Interval and extensions (volatility)

→ Stress-testing aspects

→ Expected shortfall / conditional VaR discussion

→ Option pricing using different models (binomial, Black-Scholes)

→ Option risk management: the Greeks

→ Key interest rate risk management aspects

→ Country risk & credit rating processes discussion

→ Operational risk discussion (related to capital) Exam Weight: 30%

## DAY 5

Morning session (4 hours)

Afternoon Session (4 hours)

## 7. Exam focus in interaction

→ Exam focus interactive with the participants