Important Exam Information:

- **Exam Registration**: Candidates may register online or with an application.

- **Order Study Notes**: Study notes are part of the required syllabus and are not available electronically but may be purchased through the online store.

- **Syllabus Readings**: Readings listed in this syllabus may include study notes, online readings and textbooks. Candidates are responsible for all readings in their entirety, including sections such as Appendices, unless it is stated otherwise in the syllabus.

- **Introductory Study Note**: The Introductory Study Note has a complete listing of all study notes as well as errata and other important information.

- **Case Study**: A case study will not be provided with the examination.

- **Past Exams**: Past Exams from 2000-present are available on SOA website.

- **Updates**: Candidates should be sure to check the Updates page on the exam home page periodically for additional corrections or notices.
1. **Topic: Governance**

**Learning Objectives**

The candidate will understand the requirements and methods of governing investments.

**Learning Outcomes**

The Candidate will be able to:

a) Compare the interest of key stakeholders  
b) Identify sources of unethical conduct and explain the role of a fiduciary  
c) Describe governance mechanisms that attempt to address these conflicts  
d) Understand the importance of an organization’s culture in effectuating governance.  
e) Explain how governance may be structured to gain competitive advantages and efficiencies  
f) Demonstrate understanding of how ethics relates to business decision-making, and relate ethics in business to personal ethics

**Resources**

  - Ch. 1-3, 7 & 9  
- QFII-101-14: Chapter 11 of Strategic Management: An Integrated Approach, Hill & Jones, pp. 378-384 only, up to “Agency Theory” (including example 11.1 “Strategy in Action”)  
- QFII-103-14: Advances in Risk Management and Risk Governance  
- QFII-111-17: Tracing the True Origins of Bad Behavior: New Ways to Predict Conduct Risk Exposure, Dr. Roger Miles  
# 2. Topic: Investment Risk Management

## Learning Objectives

The candidate will understand and be able to apply the components of an effective risk management system.

## Learning Outcomes

The Candidate will be able to:

- **a)** Explain the importance of risk culture in an investment firm
- **b)** Identify and describe the various kinds of risks, including market, credit, operational, etc.
- **c)** Identify and describe various approaches for managing risks including risk budgeting, position limits, etc.
- **d)** Explain the features of a best practices enterprise risk management system
- **e)** Evaluate a company’s risk management process
- **f)** Examine examples of risk management failure

## Resources

  - Ch. 17: VAR and Risk Budgeting in Investment Management
  - Ch. 9: Risk Management (section 6 only)
  - Ch. 8: Risk Identification
  - Ch. 20: Case Studies
- **The Top Ten Operational Risks: A Survival Guide for Investment Management Firms and Hedge Funds**, Miller and Lawton, 2010
- QFII-110-15: The Devil is in the Tails: Actuarial Mathematics and the Subprime Mortgage Crisis
- QFII-117-19: Chapter 7 of Strategic Risk Management Practice: How to Deal Effectively with Major Corporate Exposures, Andersen & Schroder
- QFII-121-20: Chapter 2 of Quantitative Enterprise Risk Management
### 3. Topic: Risk Measurement

#### Learning Objectives

Understand and be able to apply different approaches to measuring risk exposures.

#### Learning Outcomes

The Candidate will be able to:

a) Explain the advantages and limitations of different risk metrics

b) Explain how different approaches and tests form a set of complementary investment risk metrics

c) Analyze and evaluate risk aggregation techniques, including the use and misuse of correlation, integrated risk distributions and copulas

d) Evaluate different measures of rare event risks

e) Evaluate a company’s or a portfolio’s exposures to various risks

#### Resources

  - Ch. 9: Risk Management (section 5 only)
  - Ch. 7: Portfolio Risk: Analytical Methods (excluding Appendix)
  - Ch. 14: Stress Testing
  - Ch. 17: VAR and Risk Budgeting in Investment Management
- QFII-104-14: Correlation: Pitfalls and Alternatives
- QFII-108-14: Developments in Modelling Risk Aggregation, pp. 76-87
- QFII-110-15: The Devil is in the Tails: Actuarial Mathematics and the Subprime Mortgage Crisis
- QFII-119-19: Chapter 3 of *The Known, the Unknown, and the Unknowable in Financial Risk Management: Measurement and Theory Advancing Practice*