

# CFE 101 – Enterprise Risk Management

Nov 2025/Mar 2026/Jul 2026

## Important Course 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 Resources

Resources listed in this syllabus may include study notes, online readings, textbooks, videos and module content. Candidates are responsible for all materials in their entirety, including sections such as Appendices, unless it is stated otherwise in the syllabus.

### Topic Weight Ranges

These have been provided to indicate the relative emphasis on each topic. The ranges of weights shown are intended to apply broadly over multiple sittings; however, the weights of topics on any individual exam could fall outside the published range. Candidates should also recognize that some questions will cover multiple learning objectives.

### Learning Outcomes

Each resource listed indicates the specific learning outcome(s) it aligns with under that particular topic. Resources are listed in the recommended order of study to best master the overall topic and learning objective. For additional guidance, please see the course strategy guide.

### [Introductory Study Note](#)

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

### [Online Content Registration](#)

This syllabus contains content in module or video format that can be accessed through the SOA online portal registration linked here. This includes only content and materials that can be made available online; please consult this syllabus for the full curriculum.

### [Case Study](#)

The case study will be provided with the examination. Candidates will not be allowed to bring their copy of the case study into the examination room.

### [Past Exams](#)

Past Exams from Fall 2020-present are available on SOA website.

### [Updates](#)

Candidates should be sure to check for updates on the course homepage periodically for additional corrections or notices to the current syllabus.

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<b>1. Topic: Enterprise Risk Management Foundations (24% - 40%)</b>	
<b>Learning Objectives</b>	
The candidate will understand the foundations of ERM and be able to apply them to organizations..	
<b>Learning Outcomes</b>	
<p>The Candidate will be able to:</p> <ol style="list-style-type: none"> <li>1. Fundamentals of ERM <ol style="list-style-type: none"> <li>a) Describe the concept of ERM, the drivers behind it and the resulting value to organizations</li> </ol> </li> <li>2. The Internal Environment <ol style="list-style-type: none"> <li>a) Recommend an appropriate enterprise risk management framework for an organization</li> <li>b) Analyze the ERM roles and responsibilities of the people within an organization and how the different groups can collaborate effectively</li> <li>c) Demonstrate an understanding of governance issues, such as agency, compliance and legal risks and the need for audit and market conduct compliance activities</li> <li>d) Evaluate the elements and structure of a successful risk management function</li> </ol> </li> <li>3. The External Environment <ol style="list-style-type: none"> <li>a) Examine the impact of the external environment on an organization's ability to achieve its objectives</li> </ol> </li> </ol>	
<b>Resources</b>	<b>Learning Outcomes</b>
Video: Introduction to CFE 101	<i>Background</i>
CFE101-100-25: Placing a Value on Enterprise Risk	<i>1.1a</i>
CFE101-101-25: IAA Note on ERM for Capital and Solvency Purposes in the Insurance Industry, section 1.5 and pp. 9-38	<i>1.1a, 1.2a, 1.2b, 1.2d, 1.3a</i>
CFE101-102-25: Leveraging COSO Across the Three Lines of Defenses	<i>1.2a-1.2d, 1.3a</i>
CFE101-103-25: ORSA and the Regulator	<i>1.2a, 1.2d, 1.3a</i>
CFE101-104-25: The Culture of Risk: The Importance of Managing Conduct Risk and Maintaining an Effective Risk Culture Across the Business	<i>1.2c</i>
CFE101-105-25: Agency Theory and Asymmetric Information	<i>1.2c</i>
<i>Financial Enterprise Risk Management, Sweeting, Paul, 2<sup>nd</sup> Edition, 2017</i> <ul style="list-style-type: none"> <li>• Ch. 14: Quantifying Particular Risks</li> </ul>	<i>1.3a</i>
CFE101-106-25: Strategic Risk Management Practice, Andersen and Schroder, 2010, Ch. 7: Strategic Risk Analyses	<i>1.3a</i>

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<a href="#">Risk Appetite: Linkage with Strategic Planning Report</a>	1.2a
CFE101-107-25: Developing Key Risk Indicators to Strengthen Enterprise Risk Management	1.3a
<a href="#">Rating Agency Perspectives on Insurance Company Capital</a> , SOA Research, Aug 2023 (excluding Appendices)	1.3a
<i>Financial Enterprise Risk Management</i> , Sweeting, Paul, 2 <sup>nd</sup> Edition, 2017 <ul style="list-style-type: none"> <li>Ch. 8: Risk Identification</li> </ul>	1.3a
<i>Quantitative Enterprise Risk Management</i> , Hardy, Mary and Saunders, David, 2022 <ul style="list-style-type: none"> <li>Ch. 13: Liquidity Risk</li> </ul>	1.3a
<a href="#">Regulatory Risk and North American Insurance Organizations</a> , sections 6.1-6.14 & 7	1.3a
CFE101-108-25: Managing Environmental, Social and Governance Risks in Life & Health Insurance Business	1.3a
CFE101-109-25: Managing 21 <sup>st</sup> Century Political Risk	1.3a
CFE101-110-25: IAA Paper: Importance of Climate-Related Risks for Actuaries, pp. 2-14	1.3a
<a href="#">Embedding Cyber Risk in Risk Management: An Insurer's Perspective</a> , pp. 12-15 of Cybersecurity: Impact on Insurance Business and Operations	1.3a
<i>Quantitative Enterprise Risk Management</i> , Hardy, Mary and Saunders, David, 2022 <ul style="list-style-type: none"> <li>Ch. 2 Risk Taxonomy</li> </ul>	1.2c
CFE101-111-25: <i>IAA Risk Book</i> , Appropriate Applications of Stress and Scenario Testing	1.3a
CFE101-112-25: Internal Controls Toolkit, Doxey, Ch. 1, pp. 11-17 & 27-35	1.2c

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<b>2. Topic: Risk Analysis and Evaluation (23% - 39%)</b>	
<b>Learning Objectives</b>	
The candidate will understand the types of risks faced by an entity and be able to identify and assess these risks.	
<b>Learning Outcomes</b>	
<p>The Candidate will be able to:</p> <ol style="list-style-type: none"> <li>1. Risk Identification <ol style="list-style-type: none"> <li>a) Identify specific risks faced by an organization</li> <li>b) Detect emerging risks</li> <li>c) Determine an appropriate monitoring mechanism for emerging risks</li> </ol> </li> <li>2. Risk Assessment <ol style="list-style-type: none"> <li>a) Determine the implication of risks on the balance sheet and income statement</li> <li>b) Describe the properties and limitations of common risk measures (e.g., VaR and TVaR)</li> <li>c) Demonstrate risk aggregation techniques that illustrate the concept of risk diversification</li> <li>d) Demonstrate the use of scenario analysis and stress testing in the measurement of risks</li> <li>e) Demonstrate the use of techniques to assess risk accumulations and compounding risks</li> <li>f) Demonstrate an understanding of model risk</li> <li>g) Propose an appropriate modelling technique that meets organizational needs to analyze risks</li> <li>h) Analyze risks that are not easily quantifiable, such as operational, environmental and contagion-related risks</li> </ol> </li> </ol>	
<b>Resources</b>	<b>Learning Outcomes</b>
CFE101-103-25: ORSA and the Regulator	2.1a, 2.2h
CFE101-106-25: Strategic Risk Management Practice, Andersen and Schroder, 2010, Ch. 7: Strategic Risk Analyses	2.1a, 2.2h
CFE101-107-25: Developing Key Risk Indicators to Strengthen Enterprise Risk Management	2.2h
<a href="#">Rating Agency Perspectives on Insurance Company Capital</a> , SOA Research, Aug 2023 (excluding Appendices)	2.2c
<i>Financial Enterprise Risk Management</i> , Sweeting, Paul, 2 <sup>nd</sup> Edition, 2017 <ul style="list-style-type: none"> <li>• Ch. 8: Risk Identification</li> </ul>	2.1a, 2.1b
<i>Quantitative Enterprise Risk Management</i> , Hardy, Mary and Saunders, David, 2022 <ul style="list-style-type: none"> <li>• Ch. 13: Liquidity Risk</li> </ul>	2.1a, 2.2h

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<a href="#">Regulatory Risk and North American Insurance Organizations</a> , sections 6.1-6.14 & 7	2.1a
CFE101-108-25: Managing Environmental, Social and Governance Risks in Life & Health Insurance Business	2.1a, 2.2h
CFE101-109-25: Managing 21 <sup>st</sup> Century Political Risk	2.1a, 2.2h
CFE101-110-25: IAA Paper: Importance of Climate-Related Risks for Actuaries, pp. 2-14	2.1a, 2.2h
<a href="#">Embedding Cyber Risk in Risk Management: An Insurer's Perspective</a> , pp. 12-15 of Cybersecurity: Impact on Insurance Business and Operations	2.1a, 2.2h
CFE101-113-25: Identifying and Evaluating Emerging Risks	2.1a -2.1c
<i>Quantitative Enterprise Risk Management</i> , Hardy, Mary and Saunders, David, 2022 <ul style="list-style-type: none"> <li>• Ch. 2 Risk Taxonomy</li> <li>• Ch. 14: Model Risk and Governance</li> <li>• Ch. 3: Risk Measures</li> </ul>	2.1a 2.1a, 2.2f, 2.2g 2.2b
CFE101-111-25: <i>IAA Risk Book</i> , Appropriate Applications of Stress and Scenario Testing	2.2d
<a href="#">A New Approach for Managing Operational Risk</a> , Ch. 8	2.2h
CFE101-114-25: Measurement and Modeling of Dependencies in Economic Capital, Ch. 3-5 & 7	2.2c, 2.2e, 2.2g, 2.2h
CFE101-115-25: How CEOs Can Mitigate Compounding Risks	2.2e
<a href="#">Reviewing Systemic Risk within the Insurance Industry</a> (excluding pp. 27-29), SOA 2017	2.2h
CFE101-116-25: Western Australian Public Sector Financial Statements – Better Practice Guide - Tool 1 Example: Risk Analysis for Financial Statements	2.2a
CFE101-117-25: Economic Capital-Practical Considerations (section 7 only)	2.2g
<i>Quantitative Enterprise Risk Management</i> , Hardy, Mary and Saunders, David, 2022 <ul style="list-style-type: none"> <li>• Ch. 10: Economic Scenario Generators</li> </ul>	2.2g
<a href="#">Regulatory Capital Adequacy for Life Insurance Companies: A Comparison of Four Jurisdictions</a> , SOA Research, Jul 2023 (excluding Appendices; spreadsheet optional)	2.2d

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<b>3. Topic: Embedding ERM into Decision-Making (28% - 46%)</b>	
<b>Learning Objectives</b>	
The candidate will understand how an organization can articulate its approach to risk and how to assess risk and return trade-offs. The candidate will understand the approaches for managing risk. The candidate will understand different concepts of risk capital, risk measures in capital assessment and techniques to allocate risk capital once aggregated.	
<b>Learning Outcomes</b>	
<p>The Candidate will be able to:</p> <ol style="list-style-type: none"> <li>1. Making Decisions <ol style="list-style-type: none"> <li>a) Describe how an organization can articulate its approach to risk using risk appetite and risk limits</li> <li>b) Assess the risk and return trade-offs for decisions (e.g. those targeting changes in the organization's risk profiles)</li> </ol> </li> <li>2. Responding to Risks <ol style="list-style-type: none"> <li>a) Demonstrate application of the following responses to risk, including consideration of their costs and benefits: avoidance, acceptance, reduction without transfer, and transfer to a third party</li> <li>b) Demonstrate the use of controls in an organizational process</li> <li>c) Demonstrate how derivatives or similar methods may be used to manage or reduce risk</li> <li>d) Demonstrate how reinsurance or similar methods may be used to manage or reduce risk</li> <li>e) Analyze how ALM and similar risk strategies can be used to manage or reduce risk in an organization</li> <li>f) Demonstrate possible techniques for managing non-financial risks</li> </ol> </li> <li>3. Risk Capital <ol style="list-style-type: none"> <li>a) Explain how to develop a capital model for a hypothetical organization</li> <li>b) Demonstrate a conceptual understanding of economic measures of value and capital requirements (e.g., EVA, embedded value, economic capital, regulatory measures, and accounting measures) and their uses in decision-making processes</li> <li>c) Apply risk measures (such as VaR and TVaR) and demonstrate how to use them in value and capital assessment</li> <li>d) Demonstrate the use of techniques to allocate risk once aggregated</li> <li>e) Propose techniques of attributing the "cost" of risk/capital strategies to business units in order to gauge performance (e.g. returns on marginal capital)</li> </ol> </li> </ol>	
<b>Resources</b>	<b>Learning Outcomes</b>
CFE101-103-25: ORSA and the Regulator	3.1a, 3.3b, 3.3c
CFE101-106-25: Strategic Risk Management Practice, Andersen and Schroder, 2010, Ch. 7: Strategic Risk Analyses	3.2f

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<a href="#">Risk Appetite: Linkage with Strategic Planning Report</a>	3.1a, 3.1b, 3.3e
CFE101-107-25: Developing Key Risk Indicators to Strengthen Enterprise Risk Management	3.3b
<a href="#">Rating Agency Perspectives on Insurance Company Capital</a> , SOA Research, Aug 2023 (excluding Appendices)	3.3b
<i>Quantitative Enterprise Risk Management</i> , Hardy, Mary and Saunders, David, 2022 <ul style="list-style-type: none"> <li>Ch. 13: Liquidity Risk</li> </ul>	3.1a
<a href="#">Regulatory Risk and North American Insurance Organizations</a> , sections 6.1-6.14 & 7	3.2f
CFE101-109-25: Managing 21 <sup>st</sup> Century Political Risk	3.1a, 3.2f
CFE101-110-25: IAA Paper: Importance of Climate-Related Risks for Actuaries, pp. 2-14	3.2f
<a href="#">Embedding Cyber Risk in Risk Management: An Insurer's Perspective</a> , pp. 12-15 of Cybersecurity: Impact on Insurance Business and Operations	3.1a, 3.2f
<i>Quantitative Enterprise Risk Management</i> , Hardy, Mary and Saunders, David, 2022 <ul style="list-style-type: none"> <li>Ch. 3: Risk Measures</li> </ul>	3.3c
<a href="#">A New Approach for Managing Operational Risk</a> , Ch. 8	3.2f
CFE101-114-25: Measurement and Modeling of Dependencies in Economic Capital, Ch. 3-5 & 7	3.3a, 3.3b
<i>Financial Enterprise Risk Management</i> , Sweeting, Paul, 2 <sup>nd</sup> Edition, 2017 <ul style="list-style-type: none"> <li>Ch. 16: Responses to Risk</li> </ul>	3.1b, 3.2a, 3.2c, 3.2g
CFE101-112-25: Internal Controls Toolkit, Doxey, Ch. 1, pp. 11-17 & 27-35	3.2b, 3.2f
<i>Quantitative Enterprise Risk Management</i> , Hardy, Mary and Saunders, David, 2022 <ul style="list-style-type: none"> <li>Ch. 15: Risk Mitigation Using Options and Derivatives</li> </ul>	3.2a, 3.2c
CFE101-118-25: What is Basis Risk? Definition and Types of Basis Risk, Examples	3.2c
CFE101-119-25: IAA Risk Book, Reinsurance	3.2a, 3.2d
CFE101-120-25: IAA Risk Book, Asset Liability Management	3.2e
CFE101-117-25: Economic Capital-Practical Considerations (section 7 only)	3.3a, 3.3b
<a href="#">Regulatory Capital Adequacy for Life Insurance Companies: A Comparison of Four Jurisdictions</a> , SOA Research, Jul 2023 (excluding Appendices; spreadsheet optional)	3.3b, 3.3c
<a href="#">Corporate Pension Risk Management and Corporate Finance: Bridging the Gap between Theory and Practice in Pension Risk Management</a> , (Introduction, Section 1 and Section 2 only) Aug 2015	3.3b, 3.3c

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<a href="#">Embedded Value Calculation for a Life Insurance Company</a> , Actuarial Practice Forum, 2006	3.3b
CFE101-121-25: Economic Value Added: A Primer for European Managers, 1997	3.3b
<p><i>Quantitative Enterprise Risk Management</i>, Hardy, Mary and Saunders, David, 2022</p> <ul style="list-style-type: none"> <li>Ch. 18: Risk-Adjusted Measures of Profit and Capital Allocation (excluding section 18.6)</li> </ul> <p>(<i>Note</i>: The candidate will not be responsible for demonstrating whether or how the fair allocation criteria are met for any of the capital allocation methods in section 18.4.)</p>	3.3b-3.3e