The CIPM Level I curriculum introduced ethical reasoning and presented the provisions of the CFA Institute Code of Ethics and Standards of Professional Conduct. At Level II, you are expected to demonstrate your ability to recognize ethical issues that you may encounter and to apply the ethical principles and standards governing your professional conduct.

Note: This study session makes use of the 11th edition of the CFA Institute Standards of Practice Handbook (SOPH) to focus on applications of the Code and Standards and recommended procedures for complying with them. The guidance, recommendations, and applications provided in SOPH supplement the CFA Institute Code and Standards. Recognizing that the following list is not exhaustive, the following exchanges may help with your understanding the reading:

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1 Until October 1, 2019, existing CIPM certificants may be members of either the CIPM Association or CFA Institute. While the Code and Standards for each organization are substantially similar, each certificant will be held to the Code and Standards of the organization of which they are a member. New CIPM certificants will join CFA Institute, thus this material is focused on the CFA Institute Code of Ethics and Standards of Professional Conduct.
READING ASSIGNMENTS

1  CFA Institute Code of Ethics and Standards of Professional Conduct
2  Standards of Practice Handbook, Eleventh Edition

LEARNING OUTCOMES

READING 1. CFA INSTITUTE CODE OF ETHICS AND STANDARDS OF PROFESSIONAL CONDUCT

The candidate should be able to:

a  evaluate procedures for complying with the CFA Institute Standards of Professional Conduct;

b  explain the individual’s responsibilities as a candidate or member, including references to membership in CFA Institute, the CIPM designation, and candidacy in the CIPM program;

c  evaluate circumstances, identify violations, and formulate appropriate corrective actions based on the CFA Institute Code of Ethics and Standards of Professional Conduct.

READING 2. STANDARDS OF PRACTICE HANDBOOK, ELEVENTH EDITION
The CIPM Level I curriculum presented the calculation of time-weighted and money-weighted rates of return, including methods for estimating time-weighted returns for periods in which external cash flows occur. This study session reviews certain relatively advanced topics.

The first reading in this study session addresses the measurement of portfolio returns in several practically important cases; specifically, when portfolios contain short positions or make use of derivatives contracts, or when positions are held in multiple currencies other than the base currency. The second reading sets out considerations involved in ensuring that the data being used in the calculation of returns provides a consistent and reliable basis for this measurement.

**READING ASSIGNMENTS**

3 Topics in Return Measurement  
by Carl R. Bacon, CIPM, Bruce J. Feibel, CFA, and Bernd R. Fischer, PhD

4 Topics in Data Integrity  
by Marc. A. Wright, CFA

**LEARNING OUTCOMES**

**READING 3. TOPICS IN RETURN MEASUREMENT**

The candidate should be able to:

- **a** calculate and interpret rates of return of long–short, short extension, and market-neutral investment portfolios;
- **b** determine the effects on portfolio return of specified positions in forwards, futures, swaps, and options;
- **c** define economic (notional) exposure and notional return;
- **d** describe the notional market value approach to calculating returns to portfolios including forwards, futures, swaps, or options;
e calculate and interpret economic exposures and notional returns of portfolios including forwards, futures, swaps, or options;

f calculate and interpret the returns to unhedged and partially hedged multicurrency portfolios;

g describe the problem of zero or near-zero market value denominators (e.g., in currency overlay portfolios).

**READING 4. TOPICS IN DATA INTEGRITY**

The candidate should be able to:

a explain common causes of performance discrepancies between the investment manager and the custodian;

b explain common causes of performance discrepancies between NAV-based performance and end-of-day time-weighted performance;

c describe best practices for maintaining composite data in order to ensure the composite provides a reliable representation of the investment strategy.
This study session addresses advanced topics in performance attribution, beginning with a reading on the use of strategy benchmarks (also known as custom benchmarks) in the evaluation of managers’ investment processes. The second reading of the study session addresses return attribution in several practically important cases: portfolios with short positions, derivatives exposures, and/or multicurrency exposures. The third reading in the study session focuses on fundamental concepts in fixed-income attribution.

READING ASSIGNMENTS

5 Strategy Benchmarks: From the Investment Manager’s Perspective
   by David E. Kuenzi, CFA
6 Topics in Return Attribution
   by Carl R. Bacon, CIPM
7 Introduction to Fixed-Income Attribution
   by Claude Giguère, BScA, and Andrew Kophamel, FRM, CFA, CIPM

LEARNING OUTCOMES

READING 5. STRATEGY BENCHMARKS: FROM THE INVESTMENT MANAGER’S PERSPECTIVE

The candidate should be able to:

a. explain the concept of normal (neutral) weights;

b. distinguish between published benchmark-centered investment disciplines and manager strategy investment disciplines;

c. explain why strategy benchmarks are more appropriate for manager strategy investment disciplines;
d  describe benchmark selection/creation and risk of an institutional investment process;

e  describe the impact of benchmark selection on attribution analysis and the calculation of
  tracking error and information ratios.

READING 6. TOPICS IN RETURN ATTRIBUTION

The candidate should be able to:

a  calculate and interpret return attribution results for portfolios containing short
    positions;

b  calculate and interpret return attribution results for portfolios containing futures or
    options;

c  calculate and interpret the asset allocation, security selection, and currency allocation
    effects in a multi-currency portfolio using the Karnosky–Singer approach;

d  calculate and interpret the asset allocation, security selection, and currency allocation
    effects in a multi-currency portfolio using a geometric methodology when returns are
    not continuously compounded;

e  describe why interest rate differentials matter in multi-currency return attribution;

f  contrast arithmetic and geometric multi-period attribution analysis;

g  describe problems associated with multi-asset attribution analysis, including analysis of
    balanced portfolios and portfolios combining liquid and illiquid assets.

READING 7. INTRODUCTION TO FIXED-INCOME ATTRIBUTION

The candidate should be able to:

a  describe the three major approaches to fixed-income attribution (exposure decompo-
    sition—duration based, yield curve decomposition—duration based, and yield curve
    decomposition—full repricing);

b  compare the three major approaches to fixed-income attribution in terms of associated
    decision-making processes, typical users, operational considerations, and limitations;

c  describe and evaluate the three major approaches to fixed-income attribution in terms
    of their implementation, output, interpretation, and appropriate applications by various
    users;

d  analyze and interpret the output of a fixed-income attribution analysis.
Recognizing that distinguishing between skill and luck is problematic, performance appraisal and manager selection address questions such as how to measure investment skill and whether a fund sponsor should hire, retain, or fire an investment manager.

The first reading presents various performance appraisal approaches and techniques that will help the evaluator materially improve the assessment of investment performance and presents a mini case to reinforce many of the reading’s core ideas.

The second reading presents an approach to equity style analysis; equity style is often a major consideration in active equity manager selection.

READING ASSIGNMENTS

8  Topics in Performance Appraisal
   by Mark M. Carhart, PhD, CFA, and Russ Wermers, PhD

9  Equity Style Analysis: Beyond Performance Measurement
   by George Degroot, CFA, and Paul Greenwood, CFA

LEARNING OUTCOMES

READING 8. TOPICS IN PERFORMANCE APPRAISAL

The candidate should be able to

a  Describe considerations in distinguishing investment skill from luck in an investment record;

b  analyze mistakes in performance appraisal;

c  demonstrate the use of quality control charts in performance appraisal;

d  evaluate how benchmark and factor selection affect performance appraisal and the consequences of selecting an incorrect benchmark;

e  evaluate how cash holdings can affect performance appraisal;
f describe limitations of relying on historical performance data in performance appraisal;
g describe characteristics of superior active managers;
h justify the selection of one or more appraisal measures;
i describe techniques for evaluating strategies with non-linear returns;
j analyze the skill of an active manager.

READING 9. EQUITY STYLE ANALYSIS: BEYOND PERFORMANCE MEASUREMENT

The candidate should be able to:

a describe how characteristic-based analysis provides a deeper understanding of a manager’s strategy;
b explain how characteristic-based analysis can be used to evaluate a manager’s investment philosophy and risk tolerance;
c explain how characteristic-based analysis can be used to compare the performance of large cap growth managers;
d explain how characteristic-based analysis can be used to assess how a manager’s strategy will perform in different market environments;
e describe how characteristic-based analysis can be used to assess how a manager performed across multiple time periods.
This study session addresses important topics in investment manager selection. The first reading provides a framework that introduces and describes the important elements of the manager selection process. The second reading explores important principles of investment manager selection including distinctive due diligence concerns for investment managers of traditional and alternative investments, the manager interview process, considerations in forming a portfolio of managers, and manager monitoring and continuance. The third reading in the sequence illustrates many of these principles via a series of case studies. The fourth reading takes a generally quantitative approach to determining allocations to passive and active managers.

The final reading in this study session examines various foundational issues in manager selection, arguing the importance of using measures of active return and active risk purged of any systematic risk influences. The reading also describes considerations in constructing an optimal portfolio of managers.

**READING ASSIGNMENTS**

10 Investment Manager Selection: An Introduction  
by Jeffrey C. Heisler, PhD, CFA, and Donald W. Lindsey, CFA

11 Topics in Investment Manager Selection  
by Jeffrey C. Heisler, PhD, CFA, Jeffrey R. Nipp, CAIA, CFA, Morgan Webber, Ross Morrison, and Steven G. Bloom, CFA

12 Cases in Investment Manager Selection  
by Jeffrey C. Heisler, PhD, CFA, Jeffry R. Nipp, CAIA, CFA, Morgan Webber, Ross Morrison, and Steven G. Bloom, CFA

13 Setting Weights for Active and Index Managers  
by Scott D. Stewart, PhD, CFA

14 The Dimensions of Active Management: Why Alpha and Active Risk Are the Only Things That Matter  
by M. Barton Waring and Laurence B. Siegel
LEARNING OUTCOMES

READING 10. INVESTMENT MANAGER SELECTION: AN INTRODUCTION

The candidate should be able to:

a  describe how investment manager selection takes place in the context of the client’s investment policy statement;

b  describe qualitative considerations in evaluating investment managers;

c  describe the components of a manager selection process, including due diligence;

d  contrast Type I and Type II errors in manager hiring and continuation decisions;

e  describe uses of style analysis in investment manager selection;

f  compare returns-based and holdings-based style analysis, including the advantages and disadvantages of each;

g  describe uses of the upside capture ratio, downside capture ratio, maximum drawdown, drawdown duration, and up/down capture in evaluating managers;

h  describe uses of the “batting average” in evaluating managers;

i  evaluate a manager’s investment philosophy and investment decision-making process;

j  evaluate the costs and benefits of pooled investment vehicles and separate accounts;

k  compare types of investment manager contracts, including their major provisions and advantages and disadvantages;

l  describe the three basic forms of performance-based fees;

m  analyze and interpret a sample performance-based fee schedule.

n  evaluate a manager’s adherence to a stated investment philosophy and investment decision-making process.

READING 11. TOPICS IN INVESTMENT MANAGER SELECTION

The candidate should be able to:

a  describe portfolio considerations in selecting investment managers;

b  describe points to cover in an investment manager interview and during an on-site visit to the investment manager’s firm;

c  describe special considerations in the selection of equity portfolio managers;

d  describe special considerations in the selection of fixed-income portfolio managers;

e  describe special considerations in the selection of passive investment managers;

f  describe special considerations in the selection of hedge fund managers;

g  describe special considerations in the selection of private equity managers;

h  describe special considerations in the selection of real estate managers;

i  describe considerations in monitoring investment managers;

j  define style drift and judge whether style drift has occurred;

k  describe costs and other considerations in terminating and replacing investment managers.

READING 12. CASE STUDIES IN INVESTMENT MANAGER SELECTION

The candidate should be able to:

a  recommend and justify the selection of a passive investment manager for a given asset class;
b recommend and justify the selection of an active investment manager for a given asset class;
c recommend and justify the selection of a hedge fund manager;
d recommend and justify the selection of a private equity manager;
e recommend and justify the selection of a real estate manager;
f evaluate how an investment manager has been selected;
g evaluate the selection of a replacement investment manager.

READING 13. SETTING WEIGHTS FOR ACTIVE AND INDEX MANAGERS

The candidate should be able to:

a describe the components of the investor’s utility function for manager selection;
b explain why the investor’s utility function for manager selection uses active return instead of total return;
c describe approaches to incorporating risk into the manager selection process;
d describe the optimal mix of managers;
e describe how search and monitoring costs affect the manager selection process.

READING 14. THE DIMENSIONS OF ACTIVE MANAGEMENT: WHY ALPHA AND ACTIVE RISK ARE THE ONLY THINGS THAT MATTER

The candidate should be able to:

a describe the components of total risk (market risk and pure active risk) and explain how these components are related to strategic asset allocation;
b explain misfit risk (i) for a single active manager and (ii) for a portfolio of active managers chosen by an investor (net misfit risk);
c explain the calculation of the pure information ratio (i) for a single active manager and (ii) for a portfolio of active managers;
d distinguish between active investment results that are under an investment manager’s control and those that are under an investor’s control;
e explain the limitations of historical alphas, style boxes, and traditional active risk concepts for building a portfolio of managers;
f describe how to estimate the inputs needed in the optimization process that leads to the efficient frontier of active managers;
g explain why the manager optimization process favors lower active-risk managers.
At Level II, you will learn about the required and recommended provisions of the GIPS standards and how to apply them in practice. This study session presents and illustrates the application of the Standards.

READING ASSIGNMENTS

15 Global Investment Performance Standards
   by Carl Bacon, CIPM

LEARNING OUTCOMES

READING 15. GLOBAL INVESTMENT PERFORMANCE STANDARDS

The candidate should be able to:

a. explain the fundamentals of compliance with the GIPS standards, including the definition of the firm, calculating total firm assets, and the conditions under which an investment management firm can claim compliance;

b. evaluate the classification of portfolios as discretionary or non-discretionary in accordance with the GIPS standards;

c. evaluate the appropriateness of composite construction according to the GIPS standards, including (i) inclusion of new portfolios and termination and switching of portfolios, (ii) treatment of portfolios with external cash flows, and (iii) linked performance of model or simulated portfolios;

d. state the requirements and recommendations of the GIPS standards with respect to presentation and reporting;

e. state the requirements of the GIPS standards with respect to disclosures;
f. determine the portability of performance track records from a past firm or affiliation in accordance with the GIPS standards;

g. explain benefits of verification.