



Principles of Auditing & Other Assurance Services



O. Ray Whittington
Kurt Pany

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Twenty First Edition

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Twenty-first Edition

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PRINCIPLES OF AUDITING & OTHER ASSURANCE SERVICES, TWENTY FIRST EDITION

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Preface

The 21st edition of *Principles of Auditing & Other Assurance Services* provides a carefully balanced presentation of auditing theory and practice. Written in a clear and understandable manner, it is particularly appropriate for students who have had limited or no audit experience. The approach is to integrate auditing material with that of previous accounting financial, managerial, and systems courses.

The text's first nine chapters emphasize the philosophy and environment of the auditing profession, with special attention paid to the nature and economic purpose of auditing, auditing standards, professional conduct, legal liability, audit evidence, audit planning, consideration of internal control, and audit sampling. Chapters 10 through 16 (the "procedural chapters") deal with internal control and obtaining evidence about the various financial statement accounts, emphasizing a risk-based approach to selecting appropriate auditing procedures. Chapter 17 presents the auditors' reporting responsibilities when performing financial statement audits. Chapter 18 provides detailed guidance on integrated audits of public companies performed in accordance with PCAOB and SEC requirements under the Sarbanes-Oxley Act of 2002. Chapters 19 and 20 present the auditors' reporting responsibilities and other attestation and accounting services, such as reviews and compilations of financial statements and reports on prospective financial statements. Chapter 21 presents coverage of internal compliance and operational auditing.

The text is well suited for an introductory one-semester or one-quarter auditing course. Alternatively, it is appropriate for a two-course auditing sequence that covers the material in greater detail. For example, an introductory course might emphasize Chapters 1 through 10, 16, and 17. A second course may include coverage of the other procedural chapters (Chapters 11 through 15); integrated audits (Chapter 18); other attestation and accounting services; and internal, operational, and compliance auditing (Chapters 19, 20, and 21). The instructor also might wish to consider covering portions of Chapter 9 on sampling in the second course, with or without audit software. Overall, the text and supporting materials provide

1. **A balanced presentation.** The text provides a carefully balanced presentation of auditing and assurance theory and practice. The concepts are written in a clear, concise, and understandable manner. Real company examples are integrated throughout the text to bring this material to life. Finally, Keystone Computers & Networks, Inc., the text's illustrative audit case, is integrated into selected chapters, providing students with hands-on audit experience.
2. **Organization around balance sheet accounts emphasized in previous accounting courses.** Organizing the text around balance sheet accounts is a particularly straightforward and user-friendly way to address the risk assessment-based approach to auditing required by both U.S. and international auditing standards. These standards require an in-depth understanding of the audited company and its environment, a rigorous assessment of the risks of where and how the financial statements could be materially misstated, and an improved linkage between the auditors' assessed risks and the particulars of audit procedures performed in response to those risks. Chapters 5 through 7 of the text describe the risk assessment approach in detail. Chapters 10 through 16 are aligned with the risk assessment approach presented in the professional standards. Accordingly, the suggested audit approach and procedures of the professional standards flow smoothly from the approach suggested in earlier chapters of the text. In short, our organization of the book facilitates student learning of the risk assessment process in a very straightforward manner. Also, although the text chapters are structured around balance sheet accounts, they include a significant amount of material on transaction cycles. For example, Chapter 14 includes detailed coverage of revenue, cash receipts, acquisitions, and disbursements cycles.

3. **CPA examination support.** The text's emphasis on current auditing standards, its many author-created objective questions (including document review simulations), and a new partnership with Roger CPA Review are all aimed at helping students pass the CPA exam. As discussed in detail in the following section, this edition has significantly expanded the number of simulations like the ones included on the CPA exam, with several now included in *Connect*®.
4. **Strong student and instructor support.** McGraw-Hill's *Connect*® and its vast array of instructor and student resources provide a wealth of material to help keep students up to date. Instructor Resources can be accessed at www.mhhe.com/whittington21e as well as *Connect*.

We are confident that the 21st edition of *Principles of Auditing & Other Assurance Services* will provide students with a clear perspective of today's auditing environment.

O. Ray Whittington
Kurt Pany

Key Features of the Book

The first seven chapters of the text emphasize the philosophy and environment of the profession, with special attention paid to the nature and economic purpose of auditing and assurance services, professional standards, professional conduct, legal liability, audit evidence, audit planning, and consideration of internal control.

Chapter 1: Emphasizes the role of the public accountant, the structure of CPA firms, and the various types of audits and auditors. It also introduces the important concept of corporate governance and includes a brief history of the auditing profession, including up-to-date coverage of the Sarbanes-Oxley Act of 2002 and the Public Company Accounting Oversight Board.

Chapter 2: Includes detailed coverage of the various professional standards underlying audits and other attestation services. Also included are the recently revised public company and international audit reports.

Chapter 3: Updated to reflect the most recent AICPA and PCAOB requirements. This includes detailed coverage of the AICPA Code of Professional Conduct and more research-oriented questions. Additional problems requiring an electronic search of the AICPA Code of Professional Conduct are included.

Chapter 4: Clear, concise coverage of CPA legal liability based on suggestions by legal scholar Professor Marianne Jennings of Arizona State University.

Chapters 5 through 7: Material from the risk assessment standards is thoroughly integrated throughout.

Chapter 5: A discussion of the nature of audit evidence. New coverage of data analytics as applied to auditing.

Chapter 6: The risk assessment approach to an audit is concisely summarized in a summary of the audit process.

Chapter 7: Discusses internal control and how it is considered in an audit of financial statements. The 2017 revised COSO Enterprise Risk Management Framework is incorporated. The chapter also includes a brief overview of integrated audits (audits of internal control integrated with financial statement audits) required for certain public companies under PCAOB Auditing Standards, with more detailed coverage provided in Chapter 18. The chapter includes a section on the audit requirements for that increasingly frequent situation in which a client outsources its data processing to a service organization. Finally, it presents the auditors' internal control communication responsibilities.

Students in auditing need familiarity with auditing standards promulgated by the AICPA's Auditing Standards Board and the Public Company Accounting Oversight Board. Also, for many, familiarity with standards of the International Auditing and Assurance Standards Board is needed. While similar in most respects, key differences exist among these sets of standards. The text integrates discussions of the various standards, focusing on the differences, in a very readable manner.

This edition of the text has expanded the number of simulations included in the after-chapter problem material. New are five document review simulations that are based on that new type of simulation included on the CPA exam; these simulations all relate to the text's integrated case, Keystone Computers & Networks, Inc. All simulations in the text are designed to help students both to learn the material presented and to prepare them to complete such questions on the CPA exam. Many of the simulations are adapted from CPA exam questions released by the AICPA, and others were written by the authors to be similar to those released by the AICPA.

- 1 The Role of the Public Accountant in the American Economy
- 2 Professional Standards
- 3 Professional Ethics
- 4 Legal Liability of CPAs
- 5 Audit Evidence and Documentation
- 6 Audit Planning, Understanding the Client, Assessing Risks, and Responding
- 7 Internal Control

Keystone Computers & Networks, Inc., is the text's **Illustrative Audit Case**. This feature has been updated in this edition and illustrates audit methods and provides realistic, thought-provoking case exercises. Although each portion of the case is designed to stand alone, if used in combination, the case will help the student develop problem-solving skills in planning (Chapter 6), in considering internal control and testing account balances (Chapters 11 and 14), and in completing the audit (Chapter 16). The case incorporates the use of computerized accounting applications and also integrates the fundamentals of audit sampling from Chapter 9. Also, Document Review Simulations relating to Keystone are included in the problem material for Chapters 10, 11, 12, 14, and 17.

- 8** Consideration of Internal Control in an Information Technology Environment
- 9** Audit Sampling
- 10** Cash and Financial Investments
- 11** Accounts Receivable, Notes Receivable, and Revenue
- 12** Inventories and Cost of Goods Sold
- 13** Property, Plant, and Equipment: Depreciation and Depletion
- 14** Accounts Payable and Other Liabilities
- 15** Debt and Equity Capital
- 16** Auditing Operations and Completing the Audit
- 17** Auditors' Reports
- 18** Integrated Audits of Public Companies
- 19** Additional Assurance Services: Historical Financial Information
- 20** Additional Assurance Services: Other Information
- 21** Internal, Operational, and Compliance Auditing

Chapter 8: Emphasizes the impact of IT on audits. This chapter has been completely updated for the 21st edition, incorporating suggestions by George Easton, PhD, Emeritus Professor of MIS, San Diego State University.

Chapter 9: Includes attributes and variables sampling. For variables sampling there are stand-alone discussions of classical methods and monetary unit sampling. Many of the problems may be solved either manually or electronically using generalized audit software.

Chapters 10 through 16: These "procedural chapters" deal with internal control and obtaining audit evidence for the various financial statement amounts. The chapters emphasize the risk-based approach stressed in recent AICPA, PCAOB, and international standards. New in these chapters is discussion of data analytical evidence-gathering techniques and Chapter 11's incorporation of the recently issued FASB revenue recognition standard.

Chapter 17: Reflects the new PCAOB reporting standards and the AICPA standards (as well as an appendix on likely future AICPA reporting standard changes). The chapter is heavily revised to reflect recent changes in audit reporting requirements, including the going concern reporting area.

Chapter 18: Reflects PCAOB auditing standards on the audit of internal control over financial reporting required for public companies.

Chapter 19: Includes recent revisions to requirements for financial statement preparation, compilation and review engagements, auditor reporting on financial statements prepared using a special-purpose framework, and other changes due to the AICPA clarity standards.

Chapter 20: Discusses a variety of attestation and other assurance services. The material on attestation services describes the current professional standards. Recent pronouncements on service organization control (SOC) reports are included. Other assurance services are included at both the conceptual and practical levels.

Chapter 21: Includes a discussion of compliance auditing based on the suggestions of Mr. Norwood J. Jackson, former Deputy Controller, Office of Federal Management, U.S. Office of Management and Budget. It is updated for the Compliance Supplement as revised in 2016. Also, the chapter is updated to include the revised International Standards for the Professional Practice of Internal Auditing issued in 2016.

New to This Edition

The 21st edition has been revised to reflect a number of events and to update and improve presentations of material, including

- **Audit Reports—Form Changes.** In 2017 the Public Company Accounting Standards Board (PCAOB) revised its standard audit report, a revision described by its chair as the first significant change in more than 70 years. Changed are both the report’s form (e.g., it begins with the opinion and basis for opinion sections) and its content (e.g., it includes critical audit matters and a more detailed description of audits and auditor responsibilities). PCAOB adoption of a revised standard audit report follows changes adopted by the International Auditing and Assurance Standards Board (IAASB); also, the AICPA’s Auditing Standards Board is considering changes. The newly adopted PCAOB and IAASB reports are presented in Chapter 2 and the new PCAOB audit reporting requirements are emphasized further in Chapters 17 and 18.
- **Audit Reports—Nonpublic Company Reports.** A new appendix to Chapter 17 highlights the potential future changes in the Auditing Standards Board’s audit reporting requirements currently being considered for nonpublic company audit reporting. When changes are adopted, we intend to quickly issue a revised Chapter 17 that incorporates and compares the new PCAOB and Auditing Standards Board reporting requirements.
- **Audit Reports—Presentation of Critical (Key) Audit Matters.** The Public Company Accounting Oversight Board and the International Auditing and Assurance Standard Board audit reports require that auditors report on critical audit matters (or key audit matters) in audits of public companies. The text presents this topic in detail in Chapter 17.
- **Data Analytics.** The public accounting profession is rapidly incorporating the use of sophisticated data analytics into audits. Accordingly, a number of sections of the text have been revised to emphasize this development. Chapter 5 presents an overview of data analytics, both in business in general and in public accounting. Subsequently, data analytics is considered in the “procedural chapters,” Chapters 10 through 16. In addition, a number of new data analytic exercises and problems have been included in the text and generalized audit software data analytical problems (see below) have been updated.
- **Narrated PowerPoints.** Narration has been added to the PowerPoints. This may be particularly helpful to the instructor developing either an online or a hybrid (online plus live) course. Also, these items may be made available for students in traditional courses to study from on their own time.
- **Generalized Audit Software.** Consistent with the text’s increased coverage of data analytics in the various chapters, the data analytical procedures using generalized audit software have been updated and expanded. These materials are available in Connect and in the Instructor and Student Resources. Stand-alone modules for IDEA software (1) overall skills and (2) sampling are provided, while audit sampling exercises are provided for ACL.
- **Document Review Simulations.** For many years, the text has been a leader in including simulations such as those that appear on the CPA exam—both those released by the AICPA and author constructed. Beginning in 2016, the CPA exam started including a number of *document review simulations*, meant to test candidate application, analysis, and/or evaluation skills. A document review simulation presents a realistic document as well as related source materials requiring student review. Ordinarily, highlighted words, phrases, or a sentence in the document may or may not be correct, requiring the candidate to select appropriate edits based on the relevant source materials. We have written such simulations and included them in the text’s integrated case, Keystone Computers & Networks, Inc. in Chapters 10, 11, 12, 14, and 17. These simulations are presented and may be answered using the text alone or with Connect, in a more realistic CPA exam-like format. Several of these also are offered as auto-graded within Connect.
- **Update of Chapter 8, Consideration of Internal Control in an Information Technology Environment.** Years ago almost all paper ledger and journal systems were replaced by computerized processing, often processed in batches of like transactions. More recently, information processing has evolved to such systems as online computer systems, shared service centers, and, now, cloud-based accounting systems. Auditors may encounter any number of such IT infrastructures. Chapter 8 provides an updated overview based on suggestions by George Easton, PhD, Emeritus Professor of MIS, San Diego State University.

Additional changes include

- **FASB Revenue Recognition Standard.** Chapter 11 discusses the FASB's new revenue recognition standard and related audit requirements.
- **Reporting on Going Concern Status.** Chapter 17 clearly discusses changes in both accounting and auditing requirements for client going concern status.
- **Audit Sampling.** Chapter 9's discussion of mean-per-unit sampling is simplified and more intuitive. The term *monetary unit sampling (MUS)* replaces the term *probability-proportional-to-size (PPS) sampling* in Appendix 9A.
- **Evaluating Audit Findings.** Chapter 16's discussion of aggregating and evaluating uncorrected misstatements is updated and completely aligned with the most recent relevant audit guides.
- **Increased Number of Professional Ethics Research Questions.** Chapter 4 includes additional questions that require students to research professional ethics questions using the AICPA Code of Professional Conduct rather than the text discussion.
- **Standards Recodification.** Both the PCAOB Auditing Standards and the AICPA Attestation Standards recently have been recodified. The text's references throughout are to the recodification section numbers.
- **COSO Enterprise Risk Management Framework.** Chapter 7 is updated to include the 2017 Enterprise Risk Management Framework.
- **International Standards for the Professional Practice of Internal Auditing and Compliance Auditing Requirements.** The 2016 updating of the standards is reflected in Chapter 21 of this edition, as well as the current OMB Compliance Supplement.



McGraw-Hill Education has partnered with Roger CPA Review, a global leader in CPA exam preparation, to provide students a smooth transition from the accounting classroom to successful


completion of the CPA exam. While many aspiring accountants wait until they have completed their academic studies to begin preparing for the CPA exam, research shows that those who become familiar with exam content earlier in the process have a stronger chance of successfully passing the CPA exam. Accordingly, students using these McGraw-Hill materials will have access to sample CPA exam multiple-choice questions and task-based simulations from Roger CPA Review, with expert-written explanations and solutions. All questions either are directly from the AICPA or are modeled on AICPA questions that appear in the exam. Instructors may assign the auto-gradable Roger CPA Review multiple-choice questions in Connect, and task-based simulations are delivered via the Roger CPA Review platform, which mirrors the look, feel, and functionality of the actual exam.

McGraw-Hill Education and Roger CPA Review are dedicated to supporting every accounting student along his or her journey, ultimately helping them achieve career success in the accounting profession. For more information about the full Roger CPA Review program, exam requirements, and exam content, visit www.rogercpareview.com.

Text Features

Illustrative Cases

Actual business and accounting examples are used to illustrate key chapter concepts. The cases are boxed and appear throughout the text. They are subtitled for easy reference.

	Illustrative Case	<i>Indirect Financial Interests</i>
<p>A covered member who owns shares in a mutual fund, and an indirect financial interest in the mutual fund's investments. Thus, a covered member could not be involved in the audit of the mutual fund itself due to the direct financial interest. Concerning the mutual fund's investments in companies potentially audited by the covered member's firm, the following apply:</p> <ol style="list-style-type: none">1. Ownership of 5% or less of the outstanding shares of a	<p>The following illustrates how to evaluate whether the underlying investment is material to a <i>covered member's</i> net worth. Assume:</p> <ul style="list-style-type: none">• Jano Mutual Fund, a diversified fund, has net assets of \$10 million, composed of an investment in shares of client Apple and a variety of other investments.• The <i>covered member</i> owns 6 percent of the outstanding shares of Jano Mutual Fund (a value of \$600,000).• Jano Mutual Fund has 2 percent of its assets invested in Apple (a \$200,000 investment).	<p>In this situation, the <i>covered member</i> has a financial inter-</p>

Industry Focus Cases

These cases use examples from specific industries to provide students with a detailed, "real world" illustration of points being emphasized in the text. These cases show the importance of having a thorough knowledge of the audit client's business and industry. Like the Illustrative Cases, these cases are boxed and appear throughout the text.

Focus on the Airline Industry <p>Electronic ticketing has become basic to the airline industry. Under these systems, a passenger may book a flight electronically using any of a variety of devices and be assigned a reservation number rather than being issued a physical ticket. Because no ticket is created for the flight, the auditor is limited in the extent to which he or she can examine "paper" support for transactions. Accordingly, audit procedures should be developed relating to the associated revenues and receivables. Auditors often choose to test the computer controls in such situations.</p>

Auditing Fair Value Information

As the accounting profession continues to value more assets and liabilities at their fair values, difficult audit issues often arise. The text includes integrated coverage of fair value accounting in Chapters 5, 10, 11, 13, and 16.

Audit Objectives

The use of Audit Objectives is a basic tool in audit plan design. These help the auditor focus on the *reason* a procedure is being done and provide a check to assure that all management assertions in the financial statements are audited.

Primary Audit Objectives:	
Valuation	<input checked="" type="checkbox"/>
Accuracy	<input checked="" type="checkbox"/>

2. Obtain Analyses of Notes Receivable and Related Interest and Reconcile to the General Ledger.

An analysis of notes receivable supporting the general ledger control account may be prepared for the auditors by the client's staff. The information to be included in the analysis normally will include the name of the maker, date, maturity, amount, and interest rate. In addition to verifying the accuracy of the analysis prepared by the client, the auditors should trace selected items to the accounting records and to the notes themselves.


3. Inspect Notes on Hand and Confirm Those with Holders.

The inspection of notes receivable on hand should be performed concurrently with the count of cash and securities to prevent the concealment of a short substitution of

Fraud

Because fraud is such an important aspect of today's auditing environment, we have included a logo wherever we talk about its implications in the auditing process.

Errors and Fraud	<p>Auditing standards define errors as unintentional misstatements or omissions of amounts or disclosures in the financial statements. Errors may involve mistakes in gathering or processing data, unreasonable accounting estimates arising from oversight or misinterpretation of facts, or mistakes in the application of applicable accounting principles.</p> <p>Fraud, as the term is used in financial statement auditing (AICPA AU-C 240; PCAOB AS 2401), relates to <i>intentional</i> acts that cause a misstatement of the financial statements. Misstatements due to fraud may occur due to either (1) fraudulent financial reporting or (2) misappropriation of assets (also referred to as "defalcation").</p>
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END-OF-CHAPTER MATERIAL

The material at the end of each chapter includes a combination of Review Questions, Questions Requiring Analysis, Objective Questions, Problems, In-Class Team Cases, Research and Discussion Cases, and/or Ethics Cases. Appendixes to Chapters 6, 11, and 14 include the case material and exercises for the Keystone Computers & Networks, Inc., the illustrative audit case. Many of these questions are included in Connect as well. New to Connect for this edition are the manually graded Questions Requiring Analysis, new algorithmic versions of select Objective Questions, new auto-graded simulations, and new Completion Questions located within the Additional Study Questions.

Review Questions

The Review Questions are closely related to the material in the chapter and provide a convenient means of determining whether students have grasped the major concepts and details contained in that chapter.

Questions Requiring Analysis

The Questions Requiring Analysis require thoughtful consideration of a realistic auditing situation and the application of professional standards. A number of these questions are taken from CPA and CIA examinations, and others describe actual practice situations. These questions, which are generally shorter than the problems, tend to stress value judgments and conflicting opinions. They are now available for Connect assignment with manual grading.

Objective Questions

The Objective Questions are similar in format to the CPA exam. The first Objective Question in each chapter is composed of at least 12 multiple choice questions. Following that question are a number of task-based and document review simulations (discussed in the next section) and other objective questions. As indicated previously, the task-based simulations are from two sources—AICPA released questions (as adapted) and questions developed by the authors. All of the task-based simulations are meant to provide students with both a learning experience relating to the material in the chapter and a realistic example of CPA exam testing. The other objective questions address basic concepts and information covered by AICPA simulations but may be less complete or may address a more limited content area than is typically the subject of an AICPA simulation.

Document Review Simulations

A document review simulation presents a realistic document as well as related source materials requiring candidate review. These simulations, new to the CPA exam in 2016 as indicated earlier in the New to This Edition section, ordinarily include highlighted words, phrases, or sentences in the document that may or may not be correct, requiring the candidate to select appropriate edits based on the relevant source documents. We have written a number of such simulations and included them in the text's integrated case, **Keystone Computers & Networks, Inc.**, in Chapters 10, 11, 12, 14, and 17. These simulations are available for assignment within McGraw-Hill's online homework management system, *Connect*.

Problems

Many of the Problems are drawn from CPA and CIA examinations. These problems are retained because they require a relatively detailed analysis of audit situations. Problems are keyed to the chapter's Learning Objectives.

In-Class Team Cases

These cases are meant to be solved in class either by teams of students or, if the instructor prefers, by individuals. They help provide the student with an active learning environment in which to apply key concepts included in each chapter.

In-Class Team Case



LO 2-3

2-38.

Hide-It (HI), a family-owned business based in Tombstone, Arizona, builds custom homes with special features, such as hidden rooms and hidden wall safes. Hide-It has been an audit client for three years.

You are about to sign off on a "clean" opinion on HI's current annual financial statements when Art Hyde, the VP-Finance, calls to tell you that the Arizona Department of Revenue has seized control of a Hide-It bank account that includes about \$450,000 of company funds; the account is not currently recorded in the accounting system and you had been unaware of it. In response to your questions about the origin of the funds, Art assures you that the funds, though not recorded as revenue, had been obtained legitimately. He explains that all of the

Research and Discussion Cases

These cases involve controversial situations that do not lend themselves clear-cut answers. Students are required to research appropriate professional literature and then apply critical thinking skills to logically formulate and justify their personal positions on the issues involved in each case. The cases acquaint students with the professional literature, develop research and communication skills required on the new CPA exam, and demonstrate that several diverse, yet defensible, positions may be argued persuasively in a given situation.


with his girlfriend, Joan Scott. Moore owns the condominium and pays all the expenses relating to its maintenance. Otherwise, the two are self-supporting. Scott is a stockbroker, and recently she has started acquiring shares in one of the audit clients of this office of the public accounting firm. The shares are held in Scott's name. At present, the shares are not material in relation to her net worth.

Case 2: Mary Reed, a new staff auditor with the firm, has recently separated from her husband. Mary has filed for divorce, but the divorce cannot become final for at least five months. The property settlement is being bitterly contested. Mary's husband has always resented her professional career and has just used community property to acquire one share of common stock in each of the publicly owned companies audited by the office in which Mary works.

Ethics Cases

Ethics Cases allow the instructor to discuss ethical issues in an integrated manner throughout the course. The cases present a series of situations that result in ethical dilemmas of the type that beginning accountants may expect to encounter in practice. These cases are included in selected chapters.

Ethics Cases
LO 11-1, 2, 6



11-50. You are an assistant auditor with Zaird & Associates, CPAs. Universal Air (UA), your fifth audit client in your eight months with Zaird, is a national airline based in your hometown. UA has continued to grow while remaining healthy financially over the eight years of its existence. Indeed, as you start the audit, you notice that (unaudited) sales are up 30 percent this year (20X1), with earnings up 40 percent. Your firm, Zaird & Associates, has been UA's only auditor.

During the audit you noticed that UA records sales when tickets are sold—debit receivable (or cash), credit sales. In performing substantive procedures relating to receivables, you also find that some sales were recorded for 20X0. This is generally in line with the February

Illustrative Audit Case Exercises

These exercises all pertain to the text's updated continuing integrated case, **Keystone Computers & Networks, Inc.** While each exercise may "stand alone," when used in combination, these case exercises take the student from the original planning of an audit through the testing of controls, substantive testing, and accumulation and analysis of uncorrected misstatements. Exercises are included in Chapters 6, 11, 14, and 16. Also, the text's document review simulations relate to this integrated case—in Chapters 10, 11, 12, 14, and 17.

Appendix 6C

Illustrative Audit Case: Keystone Computers & Networks, Inc.

Part I: Audit Planning

The Keystone Computers & Networks, Inc. (KCN), case is used throughout the text to illustrate audit procedures and methodology. KCN is a company that sells and installs computer workstations and networking software to business customers. The CPA firm of Adams, Barnes & Co. has audited the financial statements of KCN for the past three

Spreadsheet Templates

Spreadsheet templates are available on the text's website to be used in conjunction with selected audit case exercises. The exercises with templates are identified by a logo in the margin.

LO 6-3, 4 6C-4. The working paper for Keystone Computers & Networks' analytical review ratios is presented in this appendix.

Required:



- Recalculate the 12/31/X5 ratios using Excel.
- After completing part (a), review the ratios and identify financial statement accounts that should be investigated because the related ratios are not comparable to prior-year ratios, industry averages, or your knowledge of the company.
- For each account identified in part (b), list potential reasons for the unexpected account balances and related ratios.

Internet Assignments

Internet assignments are included among the end-of-chapter problem material for selected chapters. These assignments require students to use the **Internet** to do audit research and are identified with a logo in the margin.

LO 6-3

6-37. Perform an Internet search to access the text of the Securities Exchange Act of 1934. Read and summarize the internal control requirements of Section 13(b)(2) of the act.

Required:



Audit Software Assignments

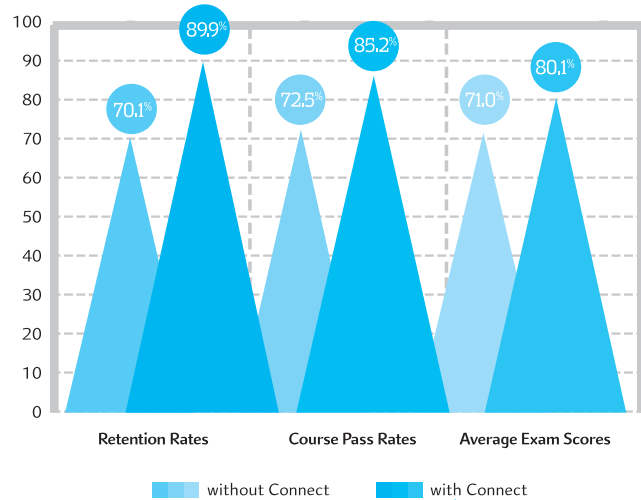
The text's generalized audit software materials are included in the Instructor and Student Resources from within Connect. Those materials are composed of two stand-alone modules—(1) audit sampling and (2) overall analytics skills coverage—that integrate analytics into text and course coverage. Either or both of these modules may be incorporated into the course to supplement traditional coverage. Also, Chapter 9 identifies problems for use with generalized audit software.

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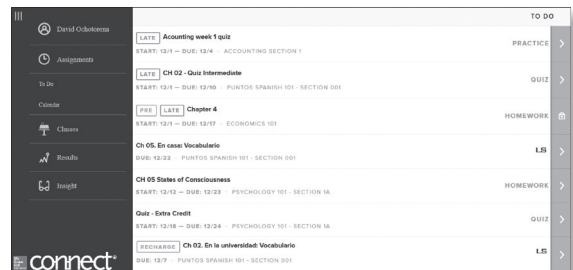
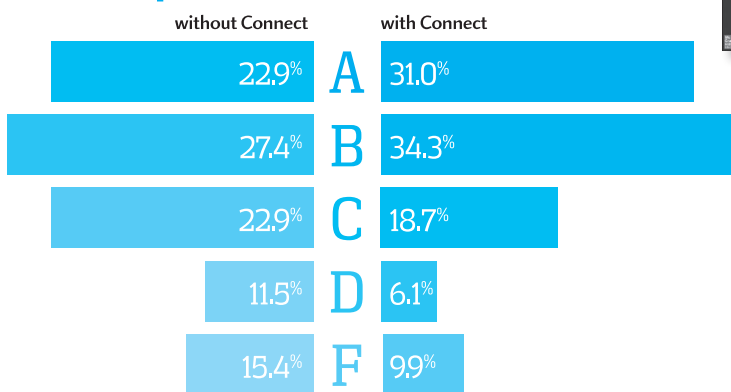
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Numerous references are made to the pronouncements of the American Institute of Certified Public Accountants (AICPA), The Institute of Internal Auditors (IIA), the Financial Accounting Standards Board (FASB), the Governmental Accounting Standards Board (GASB), the Public Company Accounting Oversight Board (PCAOB), the Securities and Exchange Commission (SEC), and the International Federation of Accountants (IFAC). Special attention is given to the AICPA *Code of Professional Conduct*, *Statements on Standards for Accounting and Review Services*, *Statements on Standards for Attestation Engagements*, *Statements on Auditing Standards*, and guidelines developed for other types of assurance services. The cooperation of the AICPA and the IIA in permitting the use of their published materials and of questions from the CPA and CIA examinations brings to the text an element of authority not otherwise available.

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Brief Contents

- 1** The Role of the Public Accountant in the American Economy 1
 - 2** Professional Standards 36
 - 3** Professional Ethics 70
 - 4** Legal Liability of CPAs 117
 - 5** Audit Evidence and Documentation 147
 - 6** Audit Planning, Understanding the Client, Assessing Risks, and Responding 197
 - 7** Internal Control 259
 - 8** Consideration of Internal Control in an Information Technology Environment 313
 - 9** Audit Sampling 348
 - 10** Cash and Financial Investments 401
 - 11** Accounts Receivable, Notes Receivable, and Revenue 457
 - 12** Inventories and Cost of Goods Sold 532
 - 13** Property, Plant, and Equipment: Depreciation and Depletion 578
 - 14** Accounts Payable and Other Liabilities 604
 - 15** Debt and Equity Capital 642
 - 16** Auditing Operations and Completing the Audit 667
 - 17** Auditors' Reports 710
 - 18** Integrated Audits of Public Companies 759
 - 19** Additional Assurance Services: Historical Financial Information 790
 - 20** Additional Assurance Services: Other Information 817
 - 21** Internal, Operational, and Compliance Auditing 841
- APPENDIX 887**
- INDEX 892**

Contents

Chapter 1

The Role of the Public Accountant in the American Economy 1

What Are Assurance Services?	1
Attest Engagements	1
<i>Assurance and Nonassurance Services</i>	4
Financial Statement Audits	4
<i>What Creates the Demand for Audits?</i>	5
<i>Major Auditing Developments of the 20th Century through Today</i>	8
<i>The Accounting Profession's Credibility Crisis</i>	10
<i>The Financial Crisis of 2008</i>	11
<i>Types of Audits</i>	11
<i>Types of Auditors</i>	12
The Public Accounting Profession	13
<i>American Institute of Certified Public Accountants</i>	13
<i>The CPA Examination</i>	15
<i>State Boards of Accountancy</i>	16
<i>Financial Accounting Standards Board</i>	16
<i>Governmental Accounting Standards Board</i>	16
<i>Federal Accounting Standards Advisory Board</i>	16
<i>The Public Company Accounting Oversight Board</i>	16
<i>Securities and Exchange Commission</i>	17
<i>The International Federation of Accountants</i>	18
<i>Other Types of Professional Services</i>	18
<i>Organization of the Public Accounting Profession</i>	20
<i>Industry Specialization</i>	21
<i>Responsibilities of the Professional Staff</i>	22
<i>Professional Development for Public Accounting Firm Personnel</i>	23
<i>Seasonal Fluctuations in Public Accounting Work</i>	24
<i>Relationships with Clients</i>	24
Chapter Summary	24
Key Terms Introduced or Emphasized in Chapter 1	25
Review Questions	27
Questions Requiring Analysis	28
Objective Questions	29
Problems	34
In-Class Team Cases	34
Research and Discussion Case	35
Supplementary References	35

Chapter 2

Professional Standards 36

Auditing Standards	36
<i>AICPA Generally Accepted Auditing Standards</i>	38
<i>PCAOB Auditing Standards</i>	42

The Auditors' Responsibility for Detecting Misstatements 42

<i>Errors and Fraud</i>	42
<i>Compliance with Laws and Regulations</i>	43
Auditors' Reports	44
<i>Public Company Audit Reports—Unmodified (Unqualified)</i>	44
<i>Nonpublic Company Audit Reports—Standard</i>	48
<i>Other Types of Auditors' Reports</i>	49
The Attestation Standards	51
Quality Control in CPA Firms	52
Regulation of Accounting Firms	54
<i>Public Company Accounting Oversight Board</i>	54
<i>Peer Review and Inspections</i>	54
International Accounting and Auditing Standards	56
Chapter Summary	59
Key Terms Introduced or Emphasized in Chapter 2	60
Review Questions	61
Questions Requiring Analysis	62
Objective Questions	63
Problems	67
In-Class Team Case	68
Research and Discussion Case	69
Supplementary References	69

Chapter 3

Professional Ethics 70

The Nature of Ethics	70
<i>What Are Ethical Dilemmas?</i>	70
<i>A Framework for Ethical Decisions</i>	71
<i>Making Ethical Decisions—A Professional Example</i>	71
The Need for Professional Ethics	74
<i>Professional Ethics in Public Accounting</i>	75
The AICPA Code of Professional Conduct—Overall Structure	75
<i>Preface of Code of Professional Conduct</i>	76
<i>Rules and Conceptual Frameworks of Code of Professional Conduct</i>	77
Code of Professional Conduct: Applicability to Members in Public Practice	80
Independence	80
<i>Individual vs. Firm Impaired Independence and the Nature of Covered Members</i>	81
<i>Independence Requirements for All Partners and Staff</i>	83
<i>Additional Independence Requirements for Covered Members</i>	84
<i>Overall Firm Independence Requirements</i>	88
Additional Code of Professional Conduct Rules	92
<i>Integrity and Objectivity Rule</i>	92
<i>General Standards Rule</i>	93
<i>Compliance with Standards Rule</i>	93

<i>Accounting Principles Rule</i>	94
<i>Acts Discreditable Rule</i>	95
<i>Contingent Fees Rule</i>	96
<i>Commissions and Referral Fees Rule</i>	97
<i>Advertising and Other Forms of Solicitation Rule</i>	97
<i>Confidential Client Information Rule</i>	98
<i>Form of Organization and Name Rule</i>	99
Code of Professional Conduct: Applicability to Members in Business and Others	100
<i>Members in Business</i>	100
<i>Other Members (Retired and Unemployed)</i>	101
Enforcement of Professional Ethics	101
Ethics for Internal Auditors	102
Chapter Summary	104
Key Terms Introduced or Emphasized in Chapter 3	105
Review Questions	107
Questions Requiring Analysis	108
Objective Questions	109
Problems	114
AICPA Code of Professional Conduct Research Problems	115
In-Class Team Cases	116
Research and Discussion Case	116
Supplementary References	116
Chapter 4	
Legal Liability of CPAs	117
The Scope of CPA Liability	117
<i>Litigation Placed in Perspective</i>	117
<i>Sources of CPA Liability</i>	118
CPAs' Liability to Their Clients under Common Law	119
<i>The Elements of Duty and Breach of Duty</i>	120
<i>The Element of Losses (Damages)</i>	121
<i>The Element of Causation (Proximate Cause)</i>	121
Auditors' Common Law Liability to Third Parties	122
<i>Ultramares (Known User) Approach</i>	122
<i>Restatement of Torts (Foreseen User) Approach</i>	123
<i>Rosenblum (Foreseeable User) Approach</i>	123
<i>Summary of Third-Party Liability Approaches</i>	124
Liability to Third Parties under Statutory Law	124
<i>Securities Act of 1933</i>	125
<i>Securities Exchange Act of 1934</i>	126
<i>Comparison of the 1933 and 1934 Acts</i>	128
<i>Racketeer Influenced and Corrupt Organizations Act</i>	129
<i>Auditors' Criminal Liability under the Securities Acts</i>	129
<i>Criminal Liability under Other Statutes</i>	130
<i>SEC and Public Company Accounting Oversight Board Regulation</i>	130
<i>CPAs' Liability for Accounting and Review Services</i>	131
<i>CPAs' Posture in the Age of Litigation</i>	133
Chapter Summary	134

Key Terms Introduced or Emphasized in Chapter 4	134
Review Questions	136
Questions Requiring Analysis	137
Objective Questions	138
Problems	142
In-Class Team Case	145
Research and Discussion Case	146
Supplementary References	146

Chapter 5

Audit Evidence and Documentation 147

The Relationships among Audit Risk, Audit Evidence, and Financial Statement Assertions	147
<i>Financial Statement Assertions</i>	147
<i>Audit Risk at the Account Balance, Class of Transaction, or Disclosure Level</i>	149
<i>Audit Risk Illustrated</i>	150
<i>Measuring Audit Risk</i>	150
<i>Audit Evidence</i>	151
<i>Types of Audit Procedures</i>	153
Substantive Procedures	158
<i>Types of Substantive Procedures</i>	159
<i>Timing of Substantive Audit Procedures</i>	160
<i>Extent of Substantive Procedures</i>	160
Analytical Procedures	160
<i>Nature of Analytical Procedures</i>	160
<i>Timing of Analytical Procedures</i>	164
<i>Extent of Analytical Procedures</i>	165
Data Analytics	165
<i>Application of Data Analytics to Auditing</i>	166
Audit Evidence for Subjective Areas	168
<i>Evidence Regarding Accounting Estimates</i>	168
<i>Evidence Regarding Fair Values</i>	169
<i>Evidence Regarding Related Party Transactions</i>	171
Audit Documentation	171
<i>Confidential Nature of Working Papers</i>	172
<i>Ownership of Audit Working Papers</i>	173
<i>Working Papers and Auditors' Liability</i>	173
<i>Types of Working Papers</i>	174
<i>Organization of Working Papers</i>	176
<i>Guidelines for Preparation of Working Papers</i>	178
<i>Computer-Generated Working Papers</i>	179
<i>Review of Audit Working Papers</i>	179
Chapter Summary	181
Key Terms Introduced or Emphasized in Chapter 5	182
Review Questions	184
Questions Requiring Analysis	186
Objective Questions	187
Problems	190
In-Class Team Case	193
Research and Discussion Case	196
Supplementary References	196

Chapter 6**Audit Planning, Understanding the Client, Assessing Risks, and Responding 197**

The Audit Process	197
Obtaining Clients	199
<i>Submitting a Proposal</i>	201
<i>Communication with Predecessor Auditors</i>	202
Planning the Audit	203
<i>Establish an Understanding with the Client</i>	204
<i>Develop an Overall Audit Strategy and Audit Plan</i>	205
<i>Use of the Client's Staff</i>	206
<i>Involvement of More Than One CPA Firm</i>	207
<i>Use of Specialists</i>	207
<i>Additional First-Year Considerations</i>	207
Obtaining an Understanding of the Client and Its Environment	207
<i>Risk Assessment Procedures</i>	208
<i>Sources of Information</i>	210
<i>Determining Materiality</i>	212
Assessing the Risks of Material Misstatement and Designing Further Audit Procedures	215
<i>Assessing Risks of Material Misstatement</i>	216
<i>Addressing the Risks of Material Misstatement Due to Fraud</i>	218
<i>Designing Further Audit Procedures in Response to Assessed Risks</i>	222
<i>The Audit Trail and Directional Testing</i>	224
<i>Transaction Cycles (Classes of Transactions)</i>	225
The Audit Plan's Systems and Substantive Portions	225
<i>The Systems (Internal Control) Portion of the Plan</i>	225
<i>The Substantive Procedures Portion of the Plan</i>	226
<i>Summary of the Relationship between Tests of Controls and Substantive Procedures</i>	228
<i>Objectives of Audit Plans</i>	229
<i>General Objectives of Audit Plans for Assets</i>	229
Substantiation of Account Balances	230
<i>Existence of Assets</i>	230
<i>Rights to the Assets</i>	230
<i>Establishing Completeness</i>	230
<i>Verifying the Cutoff</i>	231
<i>Valuation of Assets</i>	231
<i>Financial Statement Presentation and Disclosure</i>	232
An Illustration of Audit Plan Design	232
<i>Timing of Audit Work</i>	232
Chapter Summary	234
Key Terms Introduced or Emphasized in Chapter 6	235
Review Questions	237
Questions Requiring Analysis	237
Objective Questions	240
Problems	244
Ethics Case	244

Appendix 6A**Selected Internet Addresses 245****Appendix 6B****Examples of Fraud Risk Factors 246**

Risk Factors Relating to Misstatements Arising from Fraudulent Financial Reporting 246

Risk Factors Relating to Misstatements Arising from Misappropriation of Assets 248

Appendix 6C**Illustrative Audit Case: Keystone Computers & Networks, Inc. 249**

Part I: Audit Planning 249

Appendix 6C Problems 258

Chapter 7**Internal Control 259**

The Meaning of Internal Control	259
<i>The Foreign Corrupt Practices Act of 1977</i>	261
<i>Means of Achieving Internal Control</i>	261
The Control Environment	262
<i>Commitment to Integrity and Ethical Values</i>	262
<i>Effective Board of Directors</i>	262
<i>Effective Organizational Structure</i>	263
<i>Attracting, Developing, and Retaining Competent Employees</i>	264
<i>Individual Accountability</i>	265
Risk Assessment	265
Control Activities	266
<i>Performance Reviews</i>	266
<i>Transaction Control Activities</i>	266
<i>General Controls and Application Controls</i>	267
<i>Physical Controls</i>	267
<i>Segregation of Duties</i>	268
The Accounting Information System	269
Monitoring of Controls	270
<i>Management Review Controls</i>	270
<i>Internal Audit Function</i>	270
Limitations of Internal Control	271
Enterprise Risk Management	271
Corporate Governance and Its Relationship to Internal Control	272
Financial Statement Audits: The Role of Internal Control	273
Obtain an Understanding of the Client and Its Environment, Including Internal Control	274
<i>Required Auditor Understanding of Internal Control Components</i>	275
<i>Areas Difficult to Control</i>	277
<i>Risk Assessment Procedures for Internal Control</i>	277
<i>Documenting the Understanding of Internal Control</i>	278
Assess the Risks of Material Misstatement	282
<i>Assess Risks at the Financial Statement Level</i>	283
<i>Assess Risks at the Relevant Assertion Level</i>	283

Design and Perform Further Audit Procedures	284
<i>Tests of Controls</i>	284
<i>Revise the Risk of Material Misstatement Based on the Results of Tests of Controls</i>	286
<i>Design and Perform Substantive Procedures</i>	286
<i>Effects of Data Analytics</i>	286
<i>Documentation</i>	288
<i>Decision Aids for Audit Plan Modification</i>	288
<i>Using the Work of Internal Auditors</i>	288
<i>Consideration of Outsourced Computer Processing to Service Organizations</i>	290
<i>Communication of Control-Related Matters</i>	292
Internal Control Reporting by Public Companies and Their Auditors	294
<i>Overall Approach for an Audit of Internal Control</i>	295
Internal Control in the Small Company	296
Chapter Summary	297
Key Terms Introduced or Emphasized in Chapter 7	298
Review Questions	300
Questions Requiring Analysis	301
Objective Questions	303
Problems	307
In-Class Team Cases	308
Appendix 7A	
Antifraud Programs and Control Measures	310

Chapter 8

Consideration of Internal Control in an Information Technology Environment 313

Nature of IT-Based Systems	314
<i>Characteristics of Various Types of IT-Based Systems</i>	315
<i>Impact of IT on the Audit Trail</i>	318
Internal Control in an IT Environment	319
<i>Segregation of Duties</i>	320
<i>Computer-Based Fraud</i>	321
<i>Internal Auditing in an IT Environment</i>	322
<i>Control Activities in an IT System</i>	322
<i>General Control Activities</i>	323
<i>Application Control Activities</i>	326
<i>User Control Activities</i>	327
<i>Controls When Using Cloud Computing</i>	327
<i>Control in Decentralized and Single Workstation Environments</i>	328
<i>Monitoring in an IT Environment</i>	328
The Auditors' Consideration of Internal Control in an IT Environment	328
<i>Obtaining an Understanding of IT-Based System Controls</i>	329
<i>Assessing the Risks of Material Misstatement</i>	330
<i>Testing Monitoring Controls</i>	335
<i>Evidence When Services Are Outsourced</i>	335

Designing Substantive Procedures with Computers	336
<i>Using Audit Software: An Illustration</i>	336
Chapter Summary	337
Key Terms Introduced or Emphasized in Chapter 8	338
Review Questions	340
Questions Requiring Analysis	341
Objective Questions	342
Problems	344
In-Class Team Cases	346

Chapter 9

Audit Sampling 348

Comparison of Statistical and Nonstatistical Sampling	348
<i>Selecting a Random Sample</i>	349
<i>Other Methods of Sample Selection</i>	351
<i>Stratification</i>	351
<i>Types of Statistical Sampling Plans</i>	352
<i>Allowance for Sampling Risk (Precision)</i>	353
<i>Sample Size</i>	353
Audit Sampling for Tests of Controls	354
<i>Sampling Risk for Tests of Controls</i>	354
Attributes Sampling	355
<i>Determine the Objective of the Test</i>	356
<i>Define the Attributes and Deviation Conditions</i>	356
<i>Define the Population</i>	356
<i>Specify the Risk of Assessing Control Risk Too Low and the Tolerable Deviation Rate</i>	357
<i>Estimate the Expected Population Deviation Rate</i>	357
<i>Determine the Sample Size</i>	357
<i>Select the Sample</i>	359
<i>Test the Sample Items</i>	359
<i>Evaluate the Sample Results</i>	359
<i>Document the Sampling Procedure</i>	361
<i>Detailed Illustration of Attributes Sampling</i>	361
<i>Other Statistical Attributes Sampling Approaches</i>	364
<i>Nonstatistical Attributes Sampling</i>	364
Audit Sampling for Substantive Tests of Details	365
<i>Sampling Risk for Substantive Tests of Details</i>	365
Classical Variables Sampling	366
<i>Mean-per-Unit Estimation</i>	366
<i>Determination of Sample Size</i>	366
<i>Evaluation of Sample Results</i>	368
<i>Illustration of Mean-per-Unit Estimation</i>	369
<i>Difference and Ratio Estimation</i>	372
<i>Illustration of Difference and Ratio Estimation</i>	374
Nonstatistical Sampling for Substantive Procedures	375
<i>Illustration of Nonstatistical Sampling</i>	375
Chapter Summary	377
Key Terms Introduced or Emphasized in Chapter 9	377
Review Questions	379

Questions Requiring Analysis	380
Objective Questions	381
Problems	386
In-Class Team Cases	388
Appendix 9A	
Monetary Unit Sampling (MUS)	389
Determination of Sample Size	389
Controlling Sampling Risk	390
Method of Sample Selection	390
Evaluation of Sample Results	390
Illustration of MUS	392
Considerations in Using Monetary Unit Sampling	394
Appendix 9B	
Audit Risk	394
Key Terms Introduced or Emphasized in Chapter 9	
Appendixes	396
Questions and Problems for Chapter 9 Appendixes	396
Objective Questions	397
In-Class Team Case for Chapter 9 Appendixes	399
Integrating Problem for Chapter 9 and the Appendixes	400
Chapter 10	
Cash and Financial Investments	401
Cash	401
<i>Sources and Nature of Cash</i>	401
<i>The Auditors' Objectives in the Audit of Cash</i>	401
<i>How Much Audit Time for Cash?</i>	402
<i>Internal Control over Cash Transactions</i>	402
<i>Internal Control over Cash Receipts</i>	403
<i>Internal Control over Cash Disbursements</i>	405
<i>Audit Documentation for Cash</i>	410
Audit of Cash	410
<i>Interim Audit Work on Cash</i>	425
Financial Investments	425
<i>The Need for Specialized Knowledge</i>	426
<i>The Auditors' Objectives in Auditing Financial Investments</i>	426
<i>Internal Control over Financial Investments</i>	427
<i>Internal Control Questionnaire</i>	428
Audit of Financial Investments	428
<i>Risks of Material Misstatement of Financial Investments</i>	429
<i>Substantive Procedures for Financial Investments</i>	430
Chapter Summary	434
Key Terms Introduced or Emphasized in Chapter 10	435
Review Questions	436
Questions Requiring Analysis	437
Objective Questions	439
Problems	453
In-Class Team Cases	454
Research and Discussion Case	455
Ethics Case	456

Chapter 11

Accounts Receivable, Notes Receivable, and Revenue 457

Receivables	457
<i>Sources and Nature of Accounts Receivable</i>	457
<i>Sources and Nature of Notes Receivable</i>	457
<i>The Auditors' Objectives in Auditing Receivables and Revenue</i>	458
<i>Internal Control of Accounts Receivable and Revenue</i>	458
<i>Control Environment</i>	458
<i>Risk Assessment</i>	459
<i>Revenue Cycle—Accounting System and Control Activities</i>	459
<i>Monitoring</i>	463
<i>Internal Control over Notes Receivable</i>	463
<i>Audit Documentation for Receivables and Revenue</i>	464
Audit of Receivables and Revenue	465
<i>Interim Audit Work on Receivables and Revenue</i>	491
Chapter Summary	492
Key Terms Introduced or Emphasized in Chapter 11	492
Review Questions	493
Questions Requiring Analysis	494
Objective Questions	496
Problems	507
In-Class Team Case	509
Ethics Cases	511
Appendix 11A	
Illustrative Audit Case: Keystone Computers & Networks, Inc.	512
Part II: Consideration of Internal Control	512
Appendix 11A Problems	524
Appendix 11B	
Illustrative Audit Case: Keystone Computers & Networks, Inc.	525
Part III: Substantive Tests—Accounts Receivable and Revenue	525
Appendix 11B Problems	531
Chapter 12	
Inventories and Cost of Goods Sold	532
Inventories and Cost of Goods Sold	532
<i>Sources and Nature of Inventories and Cost of Goods Sold</i>	532
<i>The Auditors' Objectives in Auditing Inventories and Cost of Goods Sold</i>	532
<i>Internal Control over Inventories and Cost of Goods Sold</i>	533
<i>Control Environment</i>	534
<i>Risk Assessment</i>	534
<i>Monitoring</i>	535

<i>Purchases and Production Cycles—Accounting Systems and Control Activities</i>	535
<i>Audit Documentation for Inventories and Cost of Goods Sold</i>	539
Audit of Inventories and Cost of Goods Sold	539
<i>Problems Associated with Inventory of First-Year Audit Clients</i>	559
Chapter Summary	559
Key Terms Introduced or Emphasized in Chapter 12	560
Review Questions	560
Questions Requiring Analysis	561
Objective Questions	563
Problems	574
In-Class Team Case	575
Ethics Case	576
Research and Discussion Case	576

Chapter 13

Property, Plant, and Equipment: Depreciation and Depletion 578

Property, Plant, and Equipment	578
<i>The Auditors' Objectives in Auditing Property, Plant, and Equipment</i>	578
<i>Contrast with Audit of Current Assets</i>	579
<i>Internal Control over Plant and Equipment</i>	579
<i>Audit Documentation</i>	580
<i>Initial Audits and Repeat Engagements</i>	582
Audit of Property, Plant, and Equipment	582
Depreciation	590
<i>The Auditors' Perspective toward Depreciation</i>	590
<i>The Auditors' Objectives in Auditing Depreciation</i>	591
<i>Audit Program—Depreciation Expense and Accumulated Depreciation</i>	591
<i>Testing the Client's Provision for Depreciation</i>	592
<i>Examination of Natural Resources</i>	592
<i>Audit of Intangible Assets</i>	593
<i>Audit of Plant, Equipment, and Intangibles in Advance of the Balance Sheet Date</i>	594
Chapter Summary	594
Key Terms Introduced or Emphasized in Chapter 13	595
Review Questions	595
Questions Requiring Analysis	596
Objective Questions	597
Problems	600
In-Class Team Case	602

Chapter 14

Accounts Payable and Other Liabilities 604

Accounts Payable	604
<i>Sources and Nature of Accounts Payable</i>	604
<i>The Auditors' Objectives in Auditing Accounts Payable</i>	604

<i>Internal Control over Accounts Payable</i>	605
<i>Audit Documentation for Accounts Payable</i>	608
Audit of Accounts Payable	608
Other Liabilities	618
<i>Amounts Withheld from Employees' Pay</i>	619
<i>Sales Taxes Payable</i>	619
<i>Unclaimed Wages</i>	619
<i>Customers' Deposits</i>	619
<i>Accrued Liabilities</i>	619
<i>Balance Sheet Presentation</i>	623
<i>Time of Examination</i>	623
Chapter Summary	623
Key Terms Introduced or Emphasized in Chapter 14	624
Review Questions	624
Questions Requiring Analysis	626
Objective Questions	626
Problems	635
In-Class Team Case	637
Appendix 14A	
Illustrative Audit Case: Keystone Computers & Networks, Inc.	638
Part IV: Consideration of Internal Control	638
Appendix 14A Problems	641

Chapter 15

Debt and Equity Capital 642

Debt	642
<i>Source and Nature of Debt</i>	642
<i>The Auditors' Objectives in Auditing Debt</i>	642
<i>Assessment of the Inherent Risks Related to Debt</i>	643
<i>Internal Control over Debt</i>	643
<i>Audit Documentation</i>	644
Audit of Debt	644
<i>Time of Examination—Debt</i>	650
Equity Capital	650
<i>Sources and Nature of Owners' Equity</i>	650
<i>The Auditors' Objectives in Auditing Owners' Equity</i>	651
<i>Internal Control over Owners' Equity</i>	651
<i>Audit Documentation for Owners' Equity</i>	653
Audit Plan—Capital Stock	653
Retained Earnings and Dividends	657
<i>Financial Statement Presentation of Stockholders' Equity</i>	657
<i>Time of Examination—Stockholders' Equity</i>	658
Audit of Partnerships and Sole Proprietorships	658
Chapter Summary	658
Key Terms Introduced or Emphasized in Chapter 15	659
Review Questions	659
Questions Requiring Analysis	661
Objective Questions	662
Problems	664

Chapter 16**Auditing Operations and Completing the Audit 667**

Auditing Operations	667
<i>The Auditors' Approach to Auditing Operations</i>	667
Revenue	668
<i>Relationship of Revenue to Balance Sheet</i>	
Accounts	668
Miscellaneous Revenue	668
Expenses	669
<i>Relationship of Expenses to Balance Sheet</i>	
Accounts	669
Substantive Procedures for Selling, General, and Administrative Expenses	669
The Audit of Payroll	672
Internal Control over Payroll	672
Outsourcing the Payroll Function	674
Documentation of Internal Control for Payroll	674
Audit Plan for Payroll	675
Audit of the Statement of Cash Flows	676
Completing the Audit	677
Search for Unrecorded Liabilities	677
Review the Minutes of Meetings	677
Perform Final Analytical Procedures	677
Perform Procedures to Identify Loss Contingencies	678
Perform the Review for Subsequent Events	682
Obtain Representation Letter	685
Communicate Misstatements to Management	685
Evaluate Audit Findings	686
Review the Engagement	690
Responsibilities for Other Information	690
Other Information in Documents Containing Audited Financial Statements	690
Required Supplementary Information	691
Supplementary Information in Relation to the Financial Statements as a Whole	692
Opinion Formulation and Report Issuance	692
Additional Communications	693
Post-Audit Responsibilities	694
<i>The Auditors' Subsequent Discovery of Facts Existing at the Date of Their Report</i>	694
Subsequent Discovery of Omitted Audit Procedures	694
Chapter Summary	695
Key Terms Introduced or Emphasized in Chapter 16	696
Review Questions	698
Questions Requiring Analysis	698
Objective Questions	700
Problems	706
In-Class Team Case	708
Research and Discussion Case	709

Chapter 17**Auditors' Reports 710**

Financial Statements and Standard Unmodified Audit Reports	710
Financial Statements	710
Financial Statement Disclosures	711
Comparative Financial Statements	711
The Auditors' Standard Report—Nonpublic Clients	711
The Auditor's Standard Report—Public Clients	714
Additional Information Disclosed under PCAOB Form AP	718
Expression of an Opinion	718
Reports with an Unmodified Opinion and Additional Financial Statement–Related Information Included	719
Substantial Doubt about a Company's Going-Concern Status	720
Generally Accepted Accounting Principles Not Consistently Applied	723
Additional Financial Statement–Related Information Added—Auditor Discretionary Circumstances	724
Group Financial Statements	725
Modified Opinions	728
Materially Misstated Financial Statements (“Departures from GAAP”)	729
Inability to Obtain Sufficient Appropriate Audit Evidence (Scope Limitation)	731
Additional Reporting Issues	733
Two or More Report Modifications	733
Reporting on Comparative Financial Statements	734
Reports to the SEC	734
Chapter Summary	735
Key Terms Introduced or Emphasized in Chapter 17	737
Review Questions	738
Questions Requiring Analysis	739
Objective Questions	740
Problems	750
In-Class Team Cases	753
Research and Discussion Case	756
Appendix 17A	
Changes in Auditor Reporting Responsibility	756
Chapter 18	
Integrated Audits of Public Companies	759
Overview	759
Management's Responsibility for Internal Control	760
Management's Evaluation Process and Assessment	760
The Auditors' Responsibility for Reporting on Internal Control in PCAOB Audits	763
Plan the Engagement	764
Use a Top-Down Approach to Identify Controls to Test	765

Test and Evaluate Design Effectiveness of Internal Control over Financial Reporting 770

Test and Evaluate Operating Effectiveness of Internal Control over Financial Reporting 770

Form an Opinion on the Effectiveness of Internal Control over Financial Reporting 774

Audit Report Modifications 777

Other Communication Requirements 780

Reporting on Whether a Previously Reported Material Weakness Continues to Exist 780

Integrated Audits for Nonpublic Companies 780

Chapter Summary 781

Key Terms Introduced or Emphasized in

Chapter 18 781

Review Questions 782

Questions Requiring Analysis 783

Objective Questions 784

Problems 787

In-Class Team Cases 788

Chapter 19

Additional Assurance Services: Historical Financial Information 790

Audit-Based Services: Assurance on Additional Information 790

Reporting on Compliance with Aspects of Contractual Agreements or Regulatory Requirements in Connection with Audited Financial Statements 790

Letters for Underwriters 791

Summary Financial Statements 792

Auditing Financial Statements That Use a Financial Reporting Framework Other Than

GAAP 792

Audits of Financial Statements Prepared in

Accordance with Special-Purpose Financial Reporting Frameworks 792

Financial Statements Prepared Using a Financial

Reporting Framework Generally Accepted in Another Country 794

Additional GAAS Audits and Other Types of Assurance Engagements 795

Single Financial Statements and Specific Elements,

Accounts, or Items of Financial Statements 795

Audits of Personal Financial Statements 797

Reviews of Historical Financial Statements 798

SSARS Reviews of Nonpublic Companies

(Nonissuers) 798

PCAOB and Auditing Standards Board Reviews of Interim Information 803

Compilation and Preparation of Historical Financial Statements 804

Compilation of Financial Statements 804

Preparation of Financial Statements 806

Chapter Summary 808

Key Terms Introduced or Emphasized in

Chapter 19 809

Review Questions 810

Questions Requiring Analysis 810

Objective Questions 811

Problems 814

In-Class Team Case 815

Research and Discussion Case 816

Chapter 20

Additional Assurance Services: Other Information 817

Assurance Services 817

The Demand for Assurance Services 818

Attestation Standards 819

The Criteria 820

Attestation Risk and Materiality 822

The Character of the Engagement 822

Assurance Service Examples 824

Assurance on Internal Control over Financial Reporting 824

Assurance on Prospective Financial Statements 825

Assurance on Compliance 826

Assurance on Management's Discussion and Analysis 826

Trust Services 826

System and Organization Controls (SOC) Reports 828

Cybersecurity Services 829

PrimePlus/ElderCare Services 830

Assurance on Sustainability Information 831

XBRL Engagements 831

Future Assurance Services 832

Chapter Summary 832

Key Terms Introduced or Emphasized in

Chapter 20 833

Review Questions 834

Questions Requiring Analysis 835

Objective Questions 835

Problems 839

In-Class Team Case 839

Research and Discussion Case 840

Chapter 21

Internal, Operational, and Compliance Auditing 841

Internal Auditing 841

What Is the Purpose of Internal Auditing? 841

Evolution of Internal Auditing 841

The Internal Auditors' Role in Sarbanes-Oxley Compliance 843

<i>Professional Standards of Internal Auditing</i>	843	Key Terms Introduced or Emphasized in Chapter 21	862
<i>Certification of Internal Auditors</i>	846	Review Questions	863
Operational Auditing	846	Questions Requiring Analysis	864
<i>Objectives of Operational Audits</i>	846	Objective Questions	865
<i>General Approach to Operational Audits</i>	847	Problems	868
Compliance Auditing	850	In-Class Team Case	869
<i>Attesting to Compliance with Laws and Regulations</i>	850	Appendix 21A	
<i>Compliance Reporting by Broker-Dealers under PCAOB Requirements</i>	852	International Standards for the Practice of Internal Auditing	869
<i>Compliance Auditing of Government Entities and Organizations Receiving Federal Financial Assistance</i>	853	Appendix	887
<i>Compliance Auditing—A Summary</i>	861	Index	892
Chapter Summary	861		

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The Role of the Public Accountant in the American Economy

LO 1-1

Describe the nature of assurance services.

Dependable information is essential to the very existence of our society. The investor making a decision to buy or sell securities, the banker deciding whether to approve a loan, the government in obtaining revenue based on income tax returns—all are relying upon information provided by others. In many of these situations, the goals of the providers of information may run somewhat counter to those of the users of the information. Implicit in this line of reasoning is recognition of the social need for independent public accountants—individuals of professional competence and integrity who can tell us whether the information that we use constitutes a fair picture of what is really going on.

Our primary purpose in this chapter is to make clear the nature of independent audits and the accounting profession. We begin with a discussion of the broader concept of assurance services. Next, we describe those assurance services that involve attestation, of which audits of financial statements are an important type. Another purpose of this chapter is to summarize the influence exerted on the public accounting profession by the American Institute of Certified Public Accountants (AICPA), the Financial Accounting Standards Board (FASB), the Governmental Accounting Standards Board (GASB), the Federal Accounting Standards Advisory Board (FASAB), the Public Company Accounting Oversight Board (PCAOB), the Securities and Exchange Commission (SEC), and the International Federation of Accountants (IFAC). We also will explore various types of audits and note the impact of The Institute of Internal Auditors (IIA) and the Government Accountability Office (GAO). Finally, we will examine other types of professional services and the nature and organization of public accounting firms.

What Are Assurance Services?

The name **assurance services** is used to describe the broad range of information enhancement services performed by a certified public accountant (CPA) that are designed to enhance the degree of confidence in the information. In general, assurance services consist of two types: those that increase the reliability of information and those that involve putting information in a form or context that facilitates decision making. In this chapter, we will focus on the first type—audit and assurance services that involve reliability enhancement.

Attest Engagements

LO 1-2

Identify assurance services that involve attestation.

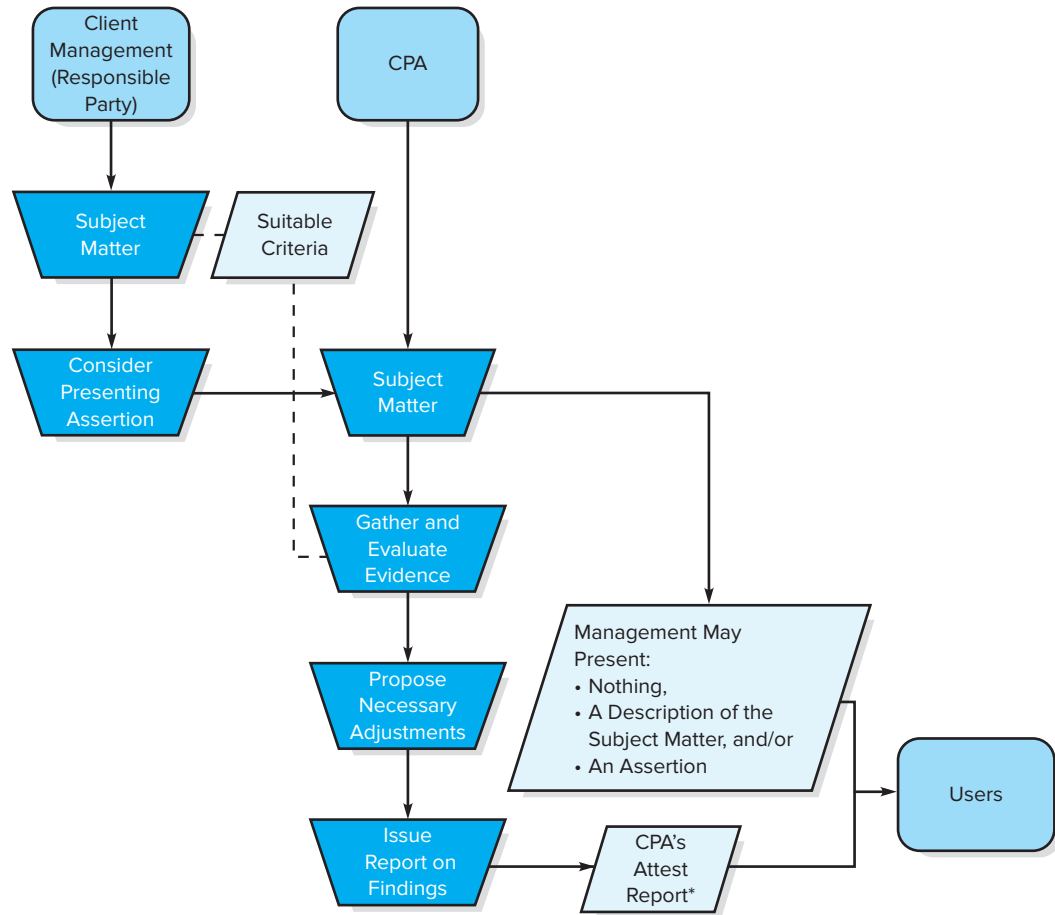
A significant portion of the assurance services provided by CPAs is referred to as *attestation services*. To attest to information means to provide assurance as to its reliability. In an **attestation engagement** (also referred to as an

LEARNING OBJECTIVES

After studying this chapter, you should be able to:

- LO 1-1** Describe the nature of assurance services.
- LO 1-2** Identify assurance services that involve attestation.
- LO 1-3** Describe the nature of financial statement audits.
- LO 1-4** Explain why audits are demanded by society.
- LO 1-5** Describe how the credibility of the accounting profession was affected by the large number of companies reporting accounting irregularities in the beginning of this century.
- LO 1-6** Contrast the various types of audits and types of auditors.
- LO 1-7** Explain the regulatory process for auditors of public companies and auditors of nonpublic companies.
- LO 1-8** Describe how public accounting firms are typically organized and the responsibilities of auditors at the various levels in the organization.

FIGURE 1.1
The Attest Function



*If the criteria are not generally available to the users, they should be presented in the CPA's report or management's presentation.

attest engagement), CPAs provide a report on subject matter or an assertion about that subject matter.

CPAs attest to many types of subject matter (or assertions about subject matter), including financial forecasts, internal control, compliance with laws and regulations, and advertising claims.

Figure 1.1 describes the attest function, which begins with the subject matter that is the responsibility of another party, usually management. As an example, consider the situation in which the CPAs attest to a company's internal control over financial reporting. The subject matter of this engagement is internal control over financial reporting—internal control is the responsibility of management. The CPAs may be engaged to report directly on the internal control and express an opinion on whether a company's internal control over financial reporting follows suitable *standards* (benchmarks). Alternatively, they may report on an assertion made by management that the company's internal control follows suitable standards. In this second case, the audit report would include an opinion on whether management's **assertion** is accurate. Managements of large public companies are now required to include in their annual reports an assertion about the effectiveness of internal control over financial reporting and to engage their auditors to attest to the effectiveness of internal control. This form of reporting is described in detail in Chapters 7 and 18.

What standards should the subject matter follow? The standards generally are those established or developed by groups composed of experts and are referred to as **suitable criteria**. In an internal control engagement, the standards may be those that have



Illustrative Case

The Value of Attest Services

CPAs have attested that a supermarket chain in Phoenix has the lowest overall prices in that city. The CPAs selected a sample of approximately 1,000 items and compared the prices to those of the various

other major supermarkets. Representatives of the supermarket chain stated that the credibility added by the CPAs has helped to convince consumers that the chain's prices are indeed the lowest.

been established by a committee of experts on internal control. In a financial statement audit, another term arises to describe suitable criteria—**financial reporting framework**. The suitable criteria in a financial statement audit are set forth in the financial reporting framework selected by management, often **generally accepted accounting principles (GAAP)**. The CPAs perform a financial statement audit to gather sufficient evidence to issue an audit report with their opinion on whether the financial statements (the subject matter) follow the **applicable financial reporting framework** (that is, the financial reporting framework chosen by management, usually GAAP).

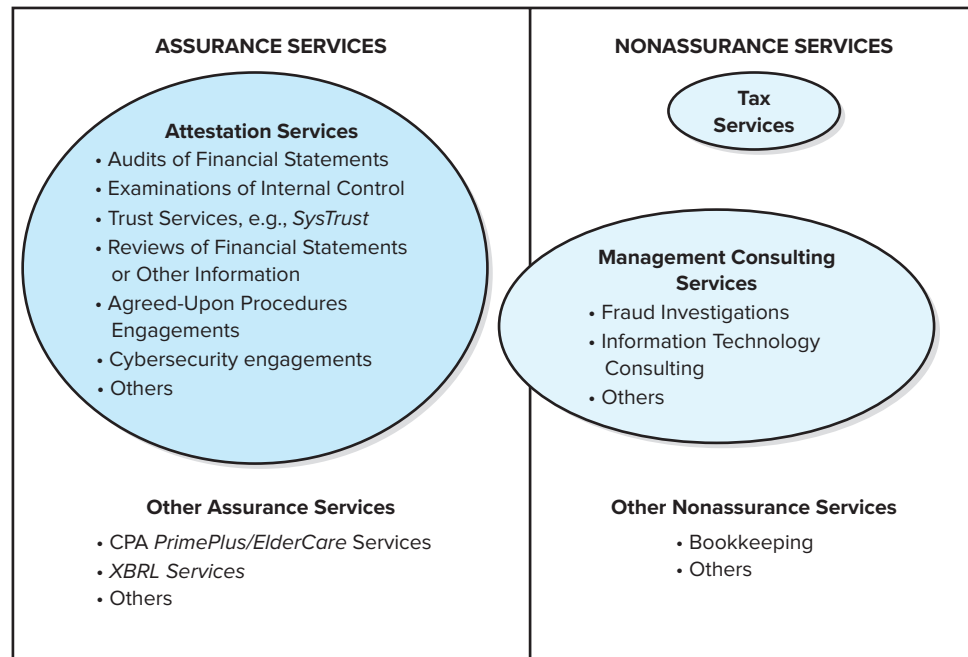
The three forms of attest engagements are examinations, reviews, and the performance of agreed-upon (or selected) procedures. An **examination**, referred to as an *audit* when it involves historical financial statements, provides the highest form of assurance that CPAs can offer. In an examination, the CPAs select from all available evidence a combination that limits to a *low level* the risk of undetected material misstatement and provides *reasonable assurance* that the subject matter (or assertion) is materially correct. A **review** is substantially less in scope of procedures than an examination and is designed to lend only a moderate (limited) degree of assurance. If an examination or review does not meet the client's needs, the CPAs and specified user or users of the information may mutually decide on specific agreed-upon procedures that the CPAs will perform. An **agreed-upon procedures engagement** results in a report by the CPAs that describes those procedures and their findings. Chapter 19 discusses the requirements of agreed-upon procedures engagements. Figure 1.2 summarizes the forms of attestation engagements.

FIGURE 1.2 Forms of Attestation

Type of Engagement	Level of Assurance Provided	Risk of Material Misstatement	Nature of Assurance in Report	Procedures
Examination*	High ("reasonable")	Low	"In our opinion . . ."	Select from all available procedures any combination that can limit attestation risk to a low level
Review	Moderate (limited)	Moderate	"We are not aware of any material modifications that should be made . . ."	Generally limited to inquiry and analytical procedures
Agreed-Upon Procedures	Summary of findings	Varies by specific engagement	Includes a summary of procedures followed and findings	Procedures agreed upon with the specified user or users

*Referred to as an *audit* when the subject matter is historical financial statements.

FIGURE 1.3
Relationships among Assurance and Other Services.



Assurance and Nonassurance Services

It is important to understand the relationships among the range of services that are offered by CPAs because different professional standards apply to each type of service. Figure 1.3 illustrates the universe of services that may be offered by CPAs and the relationships among these services. As shown, CPAs provide both assurance and nonassurance services but a few, specifically of the management consulting type, overlap. Certain management consulting services have assurance aspects. Later in this chapter, we will provide a brief description of the prevalent types of nonassurance services offered by CPA firms.

Figure 1.3 also illustrates that attestation services are only a portion of the assurance services that are offered by CPAs. A few examples of assurance services that do not involve attestation include:

- CPA *PrimePlus/ElderCare* services—providing assurance to individuals that their elderly family members' needs are being met by institutions and other professionals.
- *XBRL Services*—providing assurance on XBRL-related documents.

Throughout the first 17 chapters of this textbook, we will focus primarily on the attest function as it relates to the audit of financial statements. Other types of attestation and assurance services are discussed in Chapters 18 through 21.

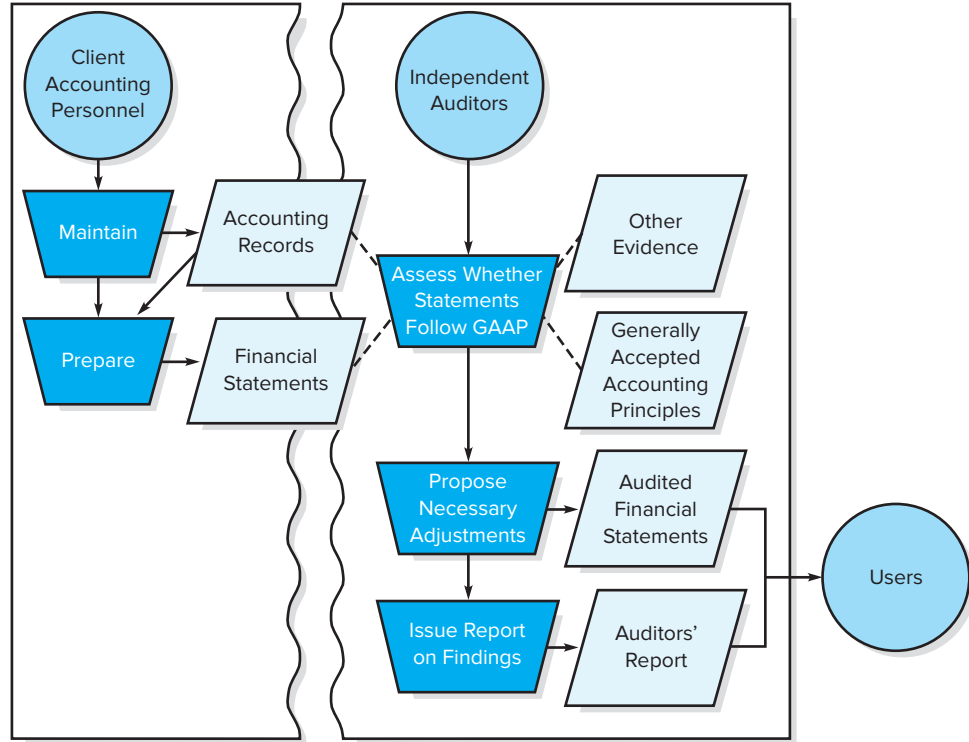
Financial Statement Audits

LO 1-3

Describe the nature of financial statement audits.

In a financial statement audit, the auditors undertake to gather evidence to obtain a high level of assurance (referred to as reasonable assurance) that the financial statements follow generally accepted accounting principles, or some other appropriate accounting framework. An audit involves searching and verifying the accounting records and examining other evidence supporting the financial statements. By gathering information about the company and its environment, including internal control; inspecting documents; observing assets; making inquiries within and outside the company; and performing other auditing procedures, the auditors will gather the evidence necessary to issue an audit report. That audit report states that it is the auditors' opinion that the financial statements follow generally accepted accounting principles. The flowchart in Figure 1.4 illustrates an audit of financial statements.

FIGURE 1.4 Audit of Financial Statements



The evidence obtained and evaluated by the auditors focuses on whether the financial statements are presented in accordance with the applicable financial reporting framework, usually generally accepted accounting principles. More specifically, an audit addresses management’s assertions that the assets listed in the balance sheet really exist, that the company has rights (by title or contract) to the assets, and that the valuations assigned to the assets have been established in conformity with generally accepted accounting principles. Evidence is gathered to show that the balance sheet contains *all the liabilities* of the company; otherwise the balance sheet might be grossly misleading because certain important liabilities have been accidentally or deliberately omitted. The auditors also obtain evidence that the recorded liabilities are actual obligations of the company and are properly valued. Similarly, the auditors gather evidence about the transactions recorded in the income statement. They demand evidence that the reported sales really occurred, that sales have been recorded at appropriate amounts, and that the recorded costs and expenses are applicable to the current period and all expenses have been recognized. Finally, the auditors consider whether the financial statement amounts are accurate, properly classified, and summarized and whether the notes are informative and complete. Only if sufficient evidence is gathered in support of all these significant assertions can the auditors provide an opinion on whether the financial statements are presented in accordance with generally accepted accounting principles.

The procedures included in an audit vary considerably from one engagement to the next. Many of the procedures appropriate to the audit of a small retail store would not be appropriate for the audit of a large corporation such as Apple Inc. Auditors perform audits of all types of businesses, and of governmental and nonprofit organizations as well. Banks and breweries, factories and stores, colleges and churches, school districts and labor unions—all are regularly visited by auditors. The selection of the procedures best suited to each audit requires the exercise of professional skill and judgment.

What Creates the Demand for Audits?

Reliable accounting and financial reporting aid society in allocating resources in an efficient manner. A primary goal is to allocate limited capital resources to the production of those goods and services for which demand is great. Economic resources are attracted to the industries, the geographic areas, and the organizational entities that are shown by financial measurements to be capable of using the resources to the best advantage.

LO 1-4

Explain why audits are demanded by society.

Inadequate accounting and reporting, on the other hand, conceal waste and inefficiency, thereby preventing an efficient allocation of economic resources in the society.

The contribution of the independent auditor is to provide *credibility* to information. Credibility, in this usage, means that the information can be believed; that is, it can be relied upon by outsiders, such as stockholders, creditors, government regulators, customers, and other interested third parties. These third parties use the information to make various economic decisions, such as decisions about whether to invest in the organization.

Economic decisions are made under conditions of uncertainty; there is always a risk that the decision maker will select the wrong alternative and incur a significant loss. The credibility added to the information by auditors actually reduces the decision maker's risk. To be more precise, the auditors reduce information risk, which is the risk that the financial information used to make a decision is materially misstated.

Audited financial statements are the accepted means by which business corporations report their operating results and financial position. The word *audited*, when applied to financial statements, means that the balance sheet and the statements of income, retained earnings, and cash flows are accompanied by an audit report prepared by independent public accountants, expressing their professional opinion as to the fairness of the company's financial statements.

Financial statements prepared by management and transmitted to outsiders without first being audited by independent accountants leave a credibility gap. In reporting on its own administration of the business, management can hardly be expected to be entirely impartial and unbiased, any more than a football coach could be expected to serve as both coach and referee in the same game. Independent auditors have no material personal or financial interest in the business; their reports can be expected to be impartial and free from bias.

Unaudited financial statements may have been honestly, but carelessly, prepared. Liabilities may have been overlooked and omitted from the balance sheet. Assets may have been overstated as a result of arithmetical errors or due to a lack of knowledge of generally accepted accounting principles. Net income may have been exaggerated because expenses were capitalized (that is, misclassified as assets) or because sales transactions were recorded in advance of delivery dates.

Finally, there is the possibility that unaudited financial statements have been deliberately falsified in order to conceal theft and fraud or as a means of inducing the reader to invest in the business or to extend credit. Although deliberate falsification of financial statements is not common, it does occur and can cause devastating losses to persons who make decisions based upon such misleading statements.

For all these reasons (accidental errors, lack of knowledge of accounting principles, unintentional bias, and deliberate falsification), financial statements may depart from generally accepted accounting principles. Audits provide organizations with more credible financial statements to allow users to have more assurance that those statements do not materially depart from generally accepted accounting principles.

In *United States v. Arthur Young*, 465 U.S. 805 (1984), the Supreme Court described the auditor's role as being that of a public watchdog, requiring both total independence from the client at all times and a complete fidelity to the public trust. As such, the public accounting profession differs from other professions in that auditors do not directly interact with those for whom their service is provided—investors and other third parties. The connections with these individuals are the reports issued by the auditors and read by and relied upon by the third parties. The auditors' reports are meant to provide value because the auditors have no material personal or financial interest in the business being audited; their reports can be expected to be impartial and free from bias.

Illustrating the Demand for Auditing

A decision by a bank loan officer about whether to make a loan to a business can be used to illustrate the demand for auditing. Since the bank's objective in making the loan is to earn an appropriate rate of interest and to collect the principal of the loan at maturity, the loan officer is making two related decisions: (1) whether to make the loan at all and

(2) what rate of interest adequately compensates the bank for the level of risk assumed. The loan officer will make these decisions based on a careful study of the company's financial statements along with other information. The risk assumed by the bank related to this customer has two aspects:¹

1. **Business risk**—the risk associated with a company's survival and profitability. This includes, for example, the risk that the company will not be able to make the interest payments and repay the principal of the loan because of economic conditions or poor management decisions. Business risk is assessed by considering factors such as the financial position of the company, the nature of its operations, the characteristics of the industry in which it operates, and the quality and integrity of its management.
2. **Information risk**—the risk that the information used to assess business risk is not accurate. Information risk includes the possibility that the financial statements might contain material departures from generally accepted accounting principles.

While auditing normally has only a limited effect on a company's business risk,² it can significantly affect the level of information risk. If the loan officer has assurance from the auditors that the company's financial statements are prepared in accordance with generally accepted accounting principles, he or she will have more confidence in his or her assessment of business risk. In addition, periodic audits performed after the loan has been made provide the loan officer with a way of monitoring management performance and compliance with the various loan provisions. By reducing information risk, the auditors reduce the overall risk to the bank; the loan officer is more likely to rely on the company's financial information, and if that information shows a healthy company, make the loan at a lower rate of interest. Therefore, management of the company has an incentive to provide audited financial statements to the loan officer to obtain the loan and to get the best possible interest rate.

The millions of individuals who have entrusted their savings to corporations by investing in securities rely upon annual and quarterly financial statements for investment decisions and for assurance that their invested funds are being used honestly and efficiently. An even greater number of people entrust their savings to banks, insurance companies, investment managers, and pension funds, which in turn invest the money in securities.

Various regulatory agencies also demand audit services. As an example, consider the income tax reporting system in the United States. The information provided on tax returns is provided by taxpayers and may be biased because of the self-interest of the providers. The government attempts to compensate for this inherent weakness through verification by audits carried out by agents of the Internal Revenue Service.

Corporate Governance and Auditing

The term **corporate governance** refers to the rules, processes, and laws by which businesses are operated, regulated, and controlled. Effective corporate governance requires that the interests of a company's management, shareholders, creditors, and other stakeholders be properly balanced. Shareholders elect **boards of directors** to oversee the corporation's activities. In the United States, public companies must establish **audit committees** of their board of directors, ordinarily composed of between three and six independent (nonmanagement) board members.³ Although details of responsibilities differ among companies, audit committees are charged with areas such as oversight of

¹ For all loans, the banker also assumes *interest rate risk*, which varies depending on the terms of the loan. Interest rate risk reflects the risk due to potential changes in the "risk-free" interest rate.

² Possible effects of an audit on business risk include modifications of management's operating decisions either due to knowledge that an audit will be performed or due to operating recommendations made by auditors. Accordingly, an audit *may* reduce business risk.

³ Specifically, independent board members include those who are not employees of the company and do not receive consulting or other compensatory fees from the company (other than fees for serving on the board of directors and the audit committee). In addition, all members of the audit committee must be financially literate, while one member must be considered a "financial expert."

financial reporting, regulatory compliance, and risk management. Included in the audit committee's responsibilities is appointment, compensation, and oversight of the work of the company's external auditors. Chapter 7 provides more information on the relationship of corporate governance to internal control, including auditor responsibilities to communicate with audit committees.

Major Auditing Developments of the 20th Century through Today

Although the objectives and concepts that guide present-day audits were almost unknown in the early years of the 20th century, audits of one type or another have been performed throughout the recorded history of commerce and government finance. The original meaning of the word *auditor* was "one who hears" and was appropriate to the era during which governmental accounting records were approved only after a public reading, in which the accounts were read aloud. From medieval times on through the Industrial Revolution, audits were performed to determine whether persons in positions of official responsibility in government and commerce were acting and reporting in an honest manner.

During the Industrial Revolution, as manufacturing concerns grew in size, their owners began to use the services of hired managers. With this separation of the ownership and management groups, the absentee owners turned increasingly to auditors to protect themselves against the danger of unintentional errors as well as fraud committed by managers and employees. Bankers were the primary outside users of financial reports (usually only balance sheets), and they also were concerned with whether the reports were distorted by errors or fraud. Before 1900, consistent with this primary objective to detect errors and fraud, audits often included a study of all, or almost all, recorded transactions.

In the first half of the 20th century, the direction of audit work tended to move away from fraud detection toward a new goal of determining whether financial statements gave a full and fair picture of financial position, operating results, and changes in financial position. This shift in emphasis was a response to the increasing number of shareholders and the corresponding increased size of corporate entities. In addition to the new shareholders, auditors became more responsible to governmental agencies, the stock exchanges representing these new investors, and other parties who might rely upon the financial information. No longer were bankers the only important outside users of audited financial data. The fairness of reported earnings became of prime importance.

As large-scale corporate entities developed rapidly in both Great Britain and the United States, auditors began to sample selected transactions, rather than study all transactions. Auditors and business managers gradually came to accept the proposition that careful examination of relatively few selected transactions would give a cost-effective, reliable indication of the accuracy of other similar transactions.

In addition to sampling, auditors became aware of the importance of effective internal control. A company's internal control consists of the policies and procedures established to provide reasonable assurance that the objectives of the company will be achieved, including the objective of preparing accurate financial statements. Auditors found that by studying the client's internal control, they could identify areas of strength as well as of weakness. *The stronger the internal control, the less testing of financial statement account balances required by the auditors.* For any significant account or any phase of financial operations in which controls were weak, the auditors expanded the nature and extent of their tests of the account balance.

With the increased reliance upon sampling and internal control, professional standards began to emphasize limitations on auditors' ability to detect **fraud**. The profession recognized that audits designed to discover fraud would be too costly. Good internal control and surety bonds were recognized as better fraud protection techniques than audits.

Beginning in the 1960s, the detection of large-scale fraud assumed a larger role in the audit process. Professional standards, which used the term *irregularities* in place of fraud, described fraudulent financial reporting and misappropriation of assets. This



shift in emphasis to taking a greater responsibility for the detection of fraud resulted from (1) a dramatic increase in congressional pressure to assume more responsibility for large-scale frauds, (2) a number of successful lawsuits claiming that fraudulent financial reporting (management fraud) had improperly gone undetected by the independent auditors, and (3) a belief by public accountants that audits should have a reasonable probability of detecting *material* fraud.

As a result of a number of instances of fraudulent financial reporting, the major accounting organizations⁴ sponsored the *National Commission on Fraudulent Financial Reporting* (the Treadway Commission) to study the causes of fraudulent reporting and make recommendations to reduce its incidence. The commission's final report, which was issued in 1987, made a number of recommendations for auditors, public companies, regulators, and educators. Many of the recommendations for auditors were enacted by the AICPA in a group of *Statements on Auditing Standards* known as the *expectation gap* standards. The commission's recommendations about internal control led to the development of an internal control framework, titled *Internal Control—Integrated Framework*, to be used to evaluate the internal control of an organization. The development of these internal control criteria increased the demand for attestation by auditors to the effectiveness of internal control. As an example, the Federal Deposit Insurance Corporation (FDIC) Improvement Act of 1991 was passed requiring management of large financial institutions to engage CPAs to attest to the effectiveness of assertions by management about the effectiveness of the institution's controls over financial reporting.

In the late 1980s and early 1990s, the billions of dollars in federal funds that were required to “bail out” the savings and loan industry caused a movement toward increased regulation of federally insured financial institutions. Congress and regulatory agencies believed that the key to preventing such problems was enacting effective laws and regulations and requiring reports by auditors on compliance with provisions of these laws and regulations. An important example of this type of legislation is the FDIC Improvement Act of 1991. In addition to requiring reporting on internal control, the law also requires management of large financial institutions to engage its CPAs to attest to management's assertion about the institution's compliance with laws and regulations related to the safety and soundness of the institution.

In 1996, in response to a continuing expectation gap between user demands and auditor performance, the AICPA issued guidance to auditors requiring an explicit assessment of the risk of material misstatement in financial statements due to fraud on all audits. This auditing standard subsequently was updated to a more stringent standard that requires auditors to definitively design procedures to address the risk of fraudulent financial reporting.

A factor overlaying a number of changes has been fast-paced changes in information technology. From small computer accounting systems to large mainframe computers, from networked enterprisewide information systems to “cloud based” accounting systems, from over-the-counter sales to the general use of the Internet to initiate and process transactions, auditing methods have had to adapt. While technology has not changed the basic objective of the financial statement audit, it has resulted in the need to develop innovative computer testing techniques and tools to assure audit effectiveness. Currently, auditors are beginning to use sophisticated data analytics, artificial intelligence, and drones to improve the effectiveness and efficiency of audits.

Many of the ideas mentioned in this brief historical sketch of the development of auditing will be analyzed in detail in later sections of this book. Our purpose at this point is merely to orient you with a quick overall look at some of the major auditing

⁴ The sponsoring organizations included the American Institute of Certified Public Accountants, the American Accounting Association, the Financial Executives Institute, The Institute of Internal Auditors, and the Institute of Management Accountants.