Instructional Case: J & S Bicycle Shop

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ABSTRACT

This case is designed to develop and assess critical thinking and decision making skills in the presence of conflicting goals. Strategic/critical thinking and decision modeling are identified in the AICPA's Core Competency Framework. The case setting is a choice among alternative inventory methods for a small business that is seeking a loan to finance expansion. Students are instructed to justify their choice of inventory method based upon information found in a list of documents. These documents contain both relevant and irrelevant information. Although the inventory calculations are simple, neither they nor the method chosen are the focus of the case. Students need to evaluate the evidence in the documents, and no single recommendation is uniquely correct. Students' written responses are evaluated on how well the recommendations are developed and supported by the evidence.

Keywords: Critical Thinking; Decision-making; Inventory

SCENARIO

ohn and Sue are graduates of YOUR University's College of Business, where they majored in marketing. After several years of work experience, John and Sue decided to start their own retail business selling bicycles, named J & S Bicycle Shop. Their first year was very successful; sales were better than they expected.

Since bicycle sales are slow in the winter, John and Sue want to expand their business to include ski equipment. A bank loan will be needed to finance the expansion. John and Sue have an appointment in the near future with a loan officer at their bank. The loan officer has asked for a set of financial statements for the first year of operation prepared using generally accepted accounting principles (GAAP). To prepare these statements, choices must be made among alternative accounting methods available under GAAP.

The loan officer indicated that approval of the loan will be based on the amount of business assets available for collateral. In addition, the banker is interested in both current and future net income and the sufficiency of cash flows to cover the payment of principal and interest. John and Sue's main concern, however, is in the long-term profitability of their business and in its ability to generate cash flows. Their goal is to run a business that provides both of them with an adequate income.

John and Sue have observed that the cost of bicycles has been steadily rising over the last year, and they expect this to continue. John and Sue have maintained records of merchandise purchases and total sales, but no calculations for cost of goods sold have been made. These records are consistent with a periodic inventory system. One of the accounting choices that needs to be made is the choice of inventory cost-flow method. The two methods John and Sue are considering for assigning costs of merchandise to ending inventory and cost of goods sold are last-in, first-out (LIFO) and first-in, first-out (FIFO). From their college accounting classes, they know that rising prices will yield different results under LIFO and FIFO, resulting in trade-offs between annual profits and reported year-end assets. They also remember that each method had advantages and disadvantages, but they are unsure how these relate to their business.

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¹ The loan officer is not requiring audited financial statements for this preliminary appointment.

While at YOUR University, you majored in accounting. As a friend of John and Sue, you have been asked to help them choose an inventory cost-flow method. They asked you to send them a written recommendation on inventory costing.

CASE REQUIREMENTS

Below is a list of documents for you to use in forming your recommendation. While your personal values and experiences are important, your recommendation should be based on the facts in the case and the evidence provided in these resources. Use the *Accounting Standards Codification* database to identify any additional alternatives, apart from LIFO and FIFO, that are available under GAAP. If any of these alternatives is better, explain why.

Before forming your recommendation, you will need to calculate both ending inventory and cost of goods sold for a periodic inventory system using LIFO and FIFO since these amounts affect profitability and reported collateral. If your recommendation is for an alternative method, your calculations should also include ending inventory and cost of goods sold for this alternative method. Include your calculations in an attachment, not to exceed one page, to your recommendation. Your attachment should clearly display the calculations of ending inventory and cost of goods sold for John and Sue's business using LIFO, FIFO, and any additional method(s) you choose to present.

Your recommendation and reasoning should be presented in no more than two typed pages using double spacing, not counting the attached calculations. Support your recommendation with references to the documents (i.e., identify the specific information that led you to your recommendation). For your convenience, you may refer to these as Document A, Document B, etc. If you are referencing the *Accounting Standards Codification* database (available in *FARS*), provide a proper citation to the appropriate paragraph.

DOCUMENTS

- A. Inventory Records for J&S Bicycle Shop (attached)
- B. Excerpt from *Accounting Trends and Techniques*, New York: American Institute of Certified Public Accountants, 2007, p. 146 (attached)
- C. §472 of *Internal Revenue Code* (The code is available online at www.law.cornell.edu/uscode. Under "Find US Code Material" enter "26" in the Title box and "472" in the Section box.)
- D. Hilsenrath, J., "Inflation Fears Cut Two Ways At the Fed," *The Wall Street Journal*, April 5, 2010, Eastern Edition, New York, NY (Article is available through many libraries' online databases. In ABI/INFORM, type title of article as search phrase and limit search to 04/05/2010.)
- E. "AICPA Statement on SEC Roadmap for IFRS," AICPA News Release, August 27, 2008, Washington, D.C. (News release is available online at www.aicpa.org. In search box, type "Press Releases," click on "AICPA Media Center—Press Releases by Date," at bottom of page click on "View Archived Press Releases," click on "2008," and scroll down to 8/27/08.)
- F. Deloitte Touche Tohmatsu, *IFRSs in your pocket 2011*, August 2011, p. 59-60 (Copy is available online at www.deloitte.com/us/IFRS. On right side of screen, click on "IFRS in your pocket 2011," and open attached Adobe file.)
- G. Accounting Standards Codification database found in Financial Accounting Standards Board's Financial Accounting Research System (FARS), 2012.

DOCUMENT A

Inventory Records for J&S Bicycle Shop

Purchase No. 1	150 bicycles @ \$128 each	\$19,200
Purchase No. 2	80 bicycles @ \$180 each	14,400
Purchase No. 3	120 bicycles @ \$210 each	25,200
Total Cost of Goods Available for Sale	350 bicycles	\$58,800

A physical count of the merchandise in John and Sue's store at the end of the year revealed that 65 bicycles remain unsold in ending inventory. The 65 bicycles in ending inventory include three bicycles from Purchase No. 1, 12 bicycles from Purchase No. 2, and 50 bicycles from Purchase No. 3.

DOCUMENT B

Excerpt from Accounting Trends and Techniques

Inventory Cost Determination

	michely cost bettimm			
	Number of Companies			
Methods	2006	2005	2004	2003
First-in first-out (FIFO)	385	385	386	384
Last-in first-out (LIFO)	228	229	239	251
Average cost	159	155	169	167
Other	30	30	27	31
Use of LIFO				
All inventories	11	16	20	26
50% or more of inventories	109	113	108	120
Less than 50% of inventories	88	76	85	77
Not determinable	20	24	26	28

Source: Accounting Trends and Techniques, New York: American Institute of Certified Public Accountants, 2007, p. 146.

CONCLUSION

Strategic/critical thinking and decision making are important skills for accounting majors as indicated in the AICPA's Core Competency Framework, yet these skills cannot be easily taught in the classroom. This case is designed to introduce these skills to new accounting majors by having them evaluate conflicting evidence, both relevant and irrelevant, and then make a recommendation to a small business. The choice of inventory method was used because the inventory calculations will be easy for most students. The simplicity of the accounting keeps the focus of the case on the critical analysis of the decision. The written recommendations are evaluated on how well the recommendations are developed and supported by the evidence. These are the actions necessary for development of critical thinking and decision making.

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REFERENCES

- American Institute of Certified Public Accountants (AICPA), 2010, Core Competency Framework & Educational Competency Assessment Web Site, http://ceae.aicpa.org/Resources/Education+and+Curriculum+Development/.
- 2. Collegiate Learning Assessment. 2008. *CLA in the Classroom Performance Task Academy Handbook*, New York, New York or www.claintheclassroom.org.
- 3. Financial Accounting Standards Board. 2012. Financial Accounting Research System (FARS) database.

INSTRUCTIONAL CASE: J & S BICYCLE SHOP

TEACHING NOTES

INTRODUCTION

This case is designed to develop and assess critical thinking and decision making skills in the presence of conflicting goals. Students also gain practice in online research and written communication. The case scenario involves choosing an inventory cost flow method for a small business seeking a loan to finance expansion of the business. Thus, the business has conflicting goals of profitability, loan collateral, and maximizing cash flows. This makes the case more real and relevant. The advantages and disadvantages of alternative methods must be analyzed by the students in order to form their recommendation. Student recommendations are evaluated on how well they are developed and defended by the evidence provided in a set of documents.

Students may be introduced to the case with a brief discussion in class. They are then asked to prepare a written recommendation to friends who have a small business with big plans for expansion. In this hypothetical situation, students are given some information, and must search via library databases and the Internet for some of the documents. The documents include (A) the inventory records for the business, (B) an excerpt from *Accounting Trends and Techniques* showing that more firms use FIFO than LIFO, (C) §472 of the *Internal Revenue Code* that indicates LIFO must be used for financial reporting if it is used for tax purposes, (D) an article discussing the possibility of inflation, (E) the AICPA News Release announcing plans for adopting international financial reporting standards (IFRS), (F) a pocket guide to IFRS that indicates that LIFO will not be allowed under IFRS, and (G) the *Accounting Standards Codification* database for researching other inventory cost flow methods. While most of the information in the documents is relevant, some of the information is not particularly relevant to the decision. In addition, students must calculate the balance sheet and income statement effects of the alternative methods.

LEARNING OBJECTIVES

The learning objectives for this case relate to the AICPA Core Competency Framework (AICPA, 2008). The relevant competency is identified parenthetically after each learning objective. To complete the case, students should:

- 1. Identify relevant information and evaluate the relevance and reliability of that information. (Broad Business Perspective Competency of "Strategic/Critical Thinking")
- 2. Analyze the impact, pros, and cons of potential solutions and use reasonable guidelines for forming a recommendation in light of conflicting or ambiguous data. (Functional Competency of "Decision Modeling")
- 3. Acknowledge that other recommendations could be made and consider the alternatives when forming the recommendation. (Functional Competency of "Decision Modeling")
- 4. Calculate the balance sheet and income statement effects of the alternative methods. (Functional Competency of "Measurement")
- 5. Convey thoughts effectively through written communication. (Personal Competency of "Communication")

By omitting the details for finding the documents included in the case, the following learning objective could also be included. To complete the case, students should:

6. Employ relevant research skills for locating data. (Functional Competency of "Research")

EVIDENCE OF EFFICACY

This instructional case was used as a writing assignment in the first intermediate financial accounting course that includes the inventory topic. The case was introduced in class in about ten minutes. The introduction included where to get the case materials, due date, and general encouragement. The case was loaded on course learning platform software, and students downloaded the case from that location. Students were given the opportunity to post questions on the case on the course's web site discussion board, where anyone could answer the questions. The discussion board was monitored closely. The instructor answered questions when appropriate, but discussion and answers by other students were welcomed.

Two different instructors tested the case in different semesters for a total of five sections of intermediate accounting students. The same grading rubric was used in all sections, and the results indicated that most students were able to support their recommendation using relevant documents. The recommendations also indicated that students understood the advantages and disadvantages of LIFO and FIFO based on the balance sheet and income statement effects.

CUSTOMIZING THE CASE

To make the case seem more local to students, the name of the university may be changed to your school's name. The type of business could also be changed, as long as the business has inventory. More or less information can be given on how to access the documents used in the case, and other documents could be included. As written, the case includes detailed instructions for finding the documents. These directions could be eliminated or made more general. For example, students could be directed to the Internal Revenue Service's website to find §472 of the Internal Revenue Code.² When changing documents, at least one non-relevant document should be included. Having both relevant and irrelevant information is essential for critical thinking; students need to analyze the value of each data source.³ A memorandum, business letter, or essay may be required for the written recommendation.

When the papers are returned, the case provides the basis for an interesting class discussion. The choice of inventory method serves as an example of how businesses critically analyze the alternatives when choosing among various accounting methods that are all acceptable under GAAP. The conversion to IFRS could also be discussed, especially how this conversion will affect small businesses as opposed to large multinational corporations.

Students may be given a rubric that describes what constitutes various levels of performance. A suggested student rubric is included in Table 1. This rubric can help improve the students' written recommendations since it lists the steps necessary to critically analyze the decision (i.e., evaluating the evidence, acknowledging alternatives, forming the recommendation). An additional advantage of the rubric is a reduction of grading disputes. For example, a quick reference to the rubric explains why a paper with a misspelled word(s) received a low score on written communication.

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² The Internal Revenue Service website sends the user to the Cornell website referenced in the document list in the case.

³ Including relevant and irrelevant documents for a critical thinking case is part of the format presented in the CLA in the Classroom Performance Task Academy.

Table 1: Student Rubric

Criteria	Below Expectations	Meets Expectations	Exceeds Expectations
Evaluation of	Student fails to recognize	Student considers some of the	Student considers all of the
Evidence in	relevance of most documents	documents but does not use all	documents and determines which
Documents	and writes in generalities.	information relevant to their	are relevant to the
	Student does not make any	recommendation.	recommendation. Student draws
	connections among the	Student loosely connects the	explicit connections in the
	information from the different	information from the different	information from the different
	documents.	documents.	documents.
Acknowledging	Student treats the problem as a	Student recognizes that the	Student recognizes that the
Alternative	simple one requiring an	problem has no single answer.	problem has more than one
Recommendations	uncomplicated response.	Student mentions the	answer. Student acknowledges
	Student fails to identify or	possibility of alternative	other options and weights them in
	dismisses alternative	recommendations, without	the recommendation.
	recommendations.	providing details.	
Forming	Student provides little basis for	Student provides some	Student constructs sound
Recommendation	recommendation.	information from documents	arguments to support
		but does not clearly explain the	recommendation.
		basis for recommendation.	Recommendation is based on
			most relevant evidence in
			documents.
Supporting	Calculations contain one or	Correct calculations are	Correct calculations are clearly
Calculations	more errors. Calculations are	presented but presentation	labeled in a well organized
	hand written.	could be improved.	presentation.
Written	Student's written	Student's written	Student's written recommendation
Communication	recommendation is wordy with	recommendation is clear but	is concise and well organized.
	weak organization. Student	wordy and is adequately	Writing uses business tone with
	uses inappropriately casual	organized. Writing uses	perfect grammar, spelling, and
	language. Writing has errors in	perfect grammar and spelling,	sentence structure.
	grammar, spelling, and/or	but may include awkward	
	sentence structure.	sentence structure.	

This case can also be used for assessment purposes. Since the case fits in an early course in most accounting majors, it can serve as a baseline for assessment of any of the learning objectives for the case. It is especially useful for assessment of both critical thinking and written communication.

SUGGESTED SOLUTION

The solution may be in the form of a memorandum, business letter, or essay. As written, the case requirements specify an essay with an attachment showing the calculations of ending inventory and cost of goods sold under LIFO and FIFO. The case requirements also instruct the student to identify any additional alternatives under GAAP for inventory costing. Alternatives to LIFO and FIFO are identified in 330-10-30 of the *Accounting Standards Codification* database. Relevant paragraphs that might be cited are as follows:

330-10-30-9: Cost for inventory purposes may be determined under any one of several assumptions as to the flow of cost factors, such as first-in first-out (FIFO), average, and last-in first-out (LIFO). The major objective in selecting a method should be to choose the one which, under the circumstances, most clearly reflects periodic income.

330-10-30-10: The cost to be matched against revenue from a sale may not be the identified cost of the specific item which is sold, especially in cases in which similar goods are purchased at different times and at different prices. While in some lines of business specific lots are clearly identified from the time of purchase through the time of sale and are costed on this basis, ordinarily the identity of goods is lost between the time of acquisition and the time of sale.

330-10-30-11: Accordingly, if the materials purchased in various lots are identical and interchangeable, the use of identified cost of the various lots may not produce the most useful financial statements. This fact has resulted in the

general acceptance of several assumptions with respect to the flow of cost factors such as FIFO, average, and LIFO to provide practical bases for the measurement of periodic income.

If a student chooses to recommend average cost or specific identification, then calculations of ending inventory and cost of goods sold for those methods should also be included in the calculations attached to the student's recommendation. The calculations for all four methods are provided in Table 2. Each solution should include some or all of these calculations in the attachment to the recommendation.

Table 2: Inventory Calculations

	Ending Inventory	Cost of Goods Sold
LIFO	65 @ \$128 = \$8,320	(85 @ \$128) + (80 @ \$180) + (120 @ \$210) =
		10,880 + 14,400 + 25,200 = \$50,480
FIFO	65 @ \$210 = \$13,650	(150 @ \$128) + (80 @ \$180) + (55 @ \$210) =
		19,200 + 14,400 + 11,550 = \$45,150
Average Cost	$($58,800 \div 350) = 168	(285 @ \$168) = \$47,880
	65 @ \$168 = \$10,920	
Specific	(3 @ \$128) + (12 @ \$180) + (50 @ 210) =	(147 @ \$128) + (68 @ \$180) + (70 @ \$210) =
Identification	384 + 2,160 + 10,500 = \$13,044	18,816 + 12,240 + 14,700 = \$45,756

The case does not have a single correct recommendation. Instead, each student's written response is evaluated on how well his or her recommendation is supported by the evidence. For grading the written portion, a checklist is provided in Table 3 for scoring each student's response. This checklist provides a list of likely arguments a student might make for each inventory method. Most students will not include everything on the checklist. Once the checklist is filled out, the student's written response can be evaluated using the grading rubric provided in Table 4. The rubric includes three levels of performance, emerging, developing, and mastering, but it could be expanded to include more levels.⁴

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⁴ The student rubric included in Table 1 labels the levels of performance as below expectations, meets expectations, and exceeds expectations, which may be clearer to students.

Table 3: Scoring Checklist

	Table 3: Scoring Checklist	-
Recommends LIFO		V
Relevant Advantages	Tax savings will result from increasing prices assigned to cost of goods sold.	
	Projected inflation will result in continuing tax savings.	
	Higher cash flows due to tax savings during inflation will help cover loan payments.	
	Higher cash flows due to tax savings during inflation will allow for withdrawals or salary for	
	owners.	
	Matching most current costs to current selling prices gives the best measure of net income.	
Irrelevant advantages	LIFO has a high potential for income manipulation.	
Relevant disadvantages	Banker may view lower reported inventory value as providing less apparent collateral for the	
	loan.	
	Management of LIFO inventory requires closer attention to avoid dipping into old layers.	
Irrelevant disadvantages	Lower reported inventory value for collateral is irrelevant. The market value of inventory is	
	what matters for collateral, and it is the same regardless of cost flow method.	
	More companies use FIFO than LIFO.	
	The switch to IFRS will require changing from LIFO.	
	LIFO usually does not match physical flow of goods.	
	LIFO has a high potential for income manipulation.	
Recommends FIFO	En o has a right potential for income manipulation.	
Relevant advantages	Management of FIFO inventory level is easier with no worry about dipping into old layers.	
Relevant advantages	FIFO gives the best measure of current cost of inventory.	-
	Higher reported income during inflation may justify higher salaries for owners.	-
	Banker may view higher reported inventory value as providing more apparent collateral for the	-
I	loan. Higher reported inventory value for collateral is irrelevant. The market value of inventory is	-
Irrelevant advantages		
	what matters for collateral, and it is the same regardless of cost flow method.	-
	More companies use FIFO than LIFO.	
	The switch to IFRS will not require changing inventory methods.	-
	FIFO usually matches physical flow of goods.	
Relevant disadvantages	FIFO yields lower cash flows than LIFO due to paying higher taxes during inflation.	
	Higher reported income during inflation may result in higher salary expectations by employees.	
Recommends		
Average Cost		
Relevant advantages	Average cost is a compromise between LIFO's higher income or FIFO's higher reported inventory value.	
	If prices move in an unpredictable fashion, then business will not be hurt by higher taxes from	
	lower prices being assigned to cost of goods sold.	
Irrelevant advantages	All units are treated alike for accounting purposes.	
	Owners do not need to keep track of inventory layers.	
Relevant disadvantages	Average cost yields lower cash flows than LIFO due to paying higher taxes during inflation.	
Recommends		
Specific Identification		
Relevant advantages	Specific identification matches the actual costs to goods.	
Irrelevant advantages	Specific identification results in more accurate inventory costing.	
Relevant disadvantages	Benefits of using LIFO or FIFO are lost.	
resevant disadvantages	More detailed inventory record keeping is necessary.	
	Specific identification usually yields lower cash flows than LIFO due to paying higher taxes	
	during inflation.	
	during initiation.	

Table 4: Grading Rubric

r			4: Grading Rubric	T = = .
Criteria		Emerging	Developing	Mastering
Evaluation of Evid	ence	Uses at least one document	Considers IFRS issue	Considers IFRS issue relevant because of
in Documents		to support recommendation.	relevant because of owners'	owners' hopes for future expansion
-Learning Objectiv	e No. 1		hopes for future expansion	(possible SEC registration). Considers
			(possible SEC registration)	Accounting Trends & Techniques
			OR considers IFRS	irrelevant for start-up bicycle company.
			irrelevant for a two person	Considers inflation issue as irrelevant
			business. Considers	because of economic conditions OR
			Accounting Trends &	considers inflation issue relevant because
			Techniques relevant to	of predictions of higher inflation from
			follow the industry	government deficits. Considers income
			standard. Considers	tax effects during inflation.
			inflation issue relevant	tax circus during inflation.
41 11:		I' I IFO FIFO 1	because of journal article.	L' LIEO EIEO
Acknowledging		Lists LIFO, FIFO, and	Lists LIFO, FIFO, and	Lists LIFO, FIFO, average cost, and
Alternative		average cost as alternatives	average cost with citation in	specific identification with citation in
Recommendations		without citation.	330-10-30 using the	330-10-30 using the Accounting
-Learning Objectiv	e No. 3		Accounting Standards	Standards Codification database.
			Codification database.	
Forming	LIFO	Recommends LIFO because	Recommends LIFO because	Supports recommendation with LIFO
Recommendation		of cash savings from tax	of multiple advantages.	advantages and FIFO disadvantages.
-Learning		effects.		Recognizes relevant and irrelevant
Objective No. 2				advantages and disadvantages. Relates
				recommendation to goals of securing
				bank loan based on collateral value and
				adequate cash flow to cover loan
				payments and provide withdrawals for
				owners.
	FIFO	Recommends FIFO because	Recommends FIFO because	Supports recommendation with FIFO
		of higher net income.	of multiple advantages.	advantages and LIFO disadvantages.
				Recognizes relevant and irrelevant
				advantages and disadvantages. Relates
				recommendation to goals of securing
				bank loan based on collateral value and
				adequate cash flow to cover loan
				payments and provide withdrawals for
				owners.
	Other	Pacammands avarage sect or	Pacammands avarage acct	
	Other	Recommends average cost or	Recommends average cost or specific identification	Supports recommendation with advantages of recommended method and
		specific identification as a		
		compromise.	based on advantages of	disadvantages of LIFO and FIFO.
			chosen method.	Relates recommendation to goals of
				securing bank loan based on collateral
				value and adequate cash flow to cover
				loan payments and provide withdrawals
	L			for owners.
Supporting Calcula		Appendix contains incorrect	Appendix contains one page	Appendix contains one page correct
-Learning Objective No. 4		calculations of ending	correct calculations of	calculations of ending inventory and cost
		inventory and/or cost of	ending inventory and cost of	of goods sold for LIFO, FIFO, and
		goods sold for LIFO and	goods sold for LIFO, FIFO,	alternative(s). Clearly labeled and well
		FIFO. Calculations are hand	and alternative(s).	organized presentation.
		written.		
Written Communication Student's written		Student's written	Student's written	Student's written recommendation is
		recommendation is wordy	recommendation is clear but	concise and well organized. Writing uses
Learning Objective 140. 3		with weak organization.	wordy and is adequately	business tone with perfect grammar,
		Student uses inappropriately	organized. Writing uses	spelling, and sentence structure.
		casual language. Writing has	perfect grammar and	Spanning, and sometime structure.
		errors in grammar, spelling,	spelling, but may include	
		and/or sentence structure.	awkward sentence structure.	
		and/or sentence structure.	awkwaru semence structure.	