

The State of Inventory Accounting and Directions for its Improvement

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Annotation: This article provides an in-depth exploration of inventory accounting practices and their importance in business operations. The article reviews traditional and modern inventory accounting methods, highlighting their advantages, disadvantages, and common challenges. It also examines the classification and categorization of inventory, emphasizing the benefits of accurate categorization and providing examples of inventory classification systems. Additionally, the article delves into inventory valuation methods, comparing FIFO, LIFO, and weighted average approaches. It explores costing techniques, including absorption costing, direct costing, and activity-based costing (ABC), along with the allocation of overhead costs. The article emphasizes the significance of real-time tracking in inventory control and discusses various tracking technologies such as barcodes and RFID. It also explores the integration of inventory accounting with supply chain management systems and examines the impact of emerging technologies, automation, and artificial intelligence on inventory management. Finally, the article offers insights into potential future trends and developments in the field of inventory accounting. By following the recommendations provided, businesses can improve their inventory accounting practices, enhance accuracy, optimize inventory levels, and make informed decisions for better financial performance.

Keywords: inventory accounting, inventory management, inventory valuation, classification, categorization, costing techniques, overhead allocation, real-time tracking, tracking technologies, supply chain management, emerging technologies, automation, artificial intelligence, future trends.

Introduction

Inventory accounting is a fundamental aspect of financial management for businesses that deal with the production, purchase, or sale of goods. It involves the systematic recording, measurement, and reporting of inventory-related transactions to provide accurate and reliable information about the value and quantity of inventory held by a company.

- 1. Importance of Inventory Accounting: a. Financial Reporting: Proper inventory accounting is essential for preparing accurate financial statements, including the balance sheet, income statement, and statement of cash flows. b. Decision Making: Accurate inventory information helps businesses make informed decisions regarding production, purchasing, pricing, and resource allocation. c. Cost Control: Inventory accounting enables businesses to monitor and control costs associated with inventory, including carrying costs, obsolescence, and shrinkage. d. Taxation: Inventory valuation methods impact tax calculations, making accurate accounting crucial for complying with tax regulations and optimizing tax strategies.
- 2. Objectives of Inventory Accounting: a. Valuation: Determining the value of inventory at various stages, such as beginning inventory, purchases, and ending inventory, using appropriate valuation methods. b. Costing: Allocating costs to inventory, including direct costs (e.g., materials, labor) and indirect costs (e.g., overhead, depreciation). c. Measurement: Quantifying inventory quantities accurately, considering factors like units, weight, volume, or any other applicable unit of measurement. d. Reporting: Providing relevant and reliable information about inventory in financial statements, including disclosures about accounting policies and inventory valuation methods.



3. Regulatory Framework: a. Generally Accepted Accounting Principles (GAAP): Accounting standards and guidelines established by accounting bodies or regulators, ensuring consistency and comparability in financial reporting. b. International Financial Reporting Standards (IFRS): Global accounting standards used by many countries to promote transparency and harmonization in financial reporting. c. Industry-specific regulations: Some industries may have specific inventory accounting requirements or guidelines to address unique characteristics or challenges.

By implementing effective inventory accounting practices, businesses can enhance financial transparency, optimize inventory management, and make informed decisions to improve profitability and operational efficiency.

Accurate inventory valuation is crucial for businesses as it directly impacts financial statements, decision making, and overall operational efficiency. Here are key reasons highlighting the importance of accurate inventory valuation:

- 1. Financial Reporting: a. Balance Sheet: Inventory valuation determines the value of inventory reported on the balance sheet, which is a significant asset for most businesses. It affects metrics like working capital, current ratio, and return on assets. b. Income Statement: Cost of Goods Sold (COGS), derived from inventory valuation, directly impacts gross profit and net income. It affects profitability ratios like gross margin and operating margin.
- 2. Decision Making: a. Pricing Strategy: Accurate inventory valuation helps businesses set appropriate selling prices by considering the cost of inventory, ensuring profitability and competitiveness in the market. b. Production Planning: Knowing the value of inventory allows businesses to plan production levels, schedule orders, and optimize resource allocation to meet customer demand while minimizing excess or shortage. c. Purchase Decisions: Accurate valuation enables businesses to determine when to restock inventory, how much to order, and which suppliers or vendors to choose, optimizing purchasing decisions and minimizing carrying costs.
- 3. Taxation: a. Cost of Goods Sold: Accurate inventory valuation directly impacts the calculation of COGS, which affects taxable income and income tax liability. b. Inventory Write-Downs: If inventory becomes obsolete, damaged, or unsalable, businesses may need to write down its value. Accurate valuation ensures proper recognition of write-downs for tax purposes.
- 4. Risk Management: a. Inventory Theft or Shrinkage: Accurate valuation helps identify discrepancies between actual inventory and recorded amounts, enabling timely detection of theft or shrinkage issues. b. Obsolescence and Expiry: Proper valuation allows businesses to identify slow-moving or obsolete inventory, minimizing the risk of holding obsolete or expired stock and potential losses.
- 5. Investor Confidence: Accurate inventory valuation enhances financial transparency, which is crucial for gaining investor confidence and attracting potential stakeholders. It demonstrates proper management of assets and provides a clear picture of the business's financial health.

By ensuring accurate inventory valuation, businesses can make sound financial decisions, comply with regulatory requirements, optimize tax planning, mitigate risks, and build trust with investors and stakeholders.

The purpose of this article is to provide a comprehensive understanding of inventory accounting and emphasize the importance of accurate inventory valuation in business operations. The article aims to educate readers about the significance of properly valuing inventory and the impact it has on financial statements, decision making, taxation, risk management, and investor confidence.



Through this article, readers will gain insights into the role of inventory valuation in financial reporting, including its impact on the balance sheet and income statement. They will understand how accurate inventory valuation affects key financial metrics, such as working capital, current ratio, gross profit, net income, and profitability ratios.

Additionally, the article highlights the crucial role of accurate inventory valuation in decision making processes. It explains how proper valuation helps businesses establish effective pricing strategies, plan production levels, optimize purchasing decisions, and meet customer demand efficiently. It also emphasizes the significance of accurate inventory valuation in managing taxation and minimizing risks associated with inventory theft, obsolescence, and expiry.

Furthermore, the article underscores the importance of accurate inventory valuation in building investor confidence and attracting stakeholders. It emphasizes the transparency and financial health that comes with proper management of inventory and precise valuation practices.

Overall, the article aims to provide readers with a comprehensive understanding of inventory accounting, specifically focusing on the importance of accurate inventory valuation. It aims to equip readers with the knowledge necessary to make informed decisions, improve financial reporting accuracy, optimize operations, and enhance overall business performance.

Literature Review

In this section, we will provide an overview of the traditional methods commonly used for inventory accounting. These methods include:

- 1. First-In, First-Out (FIFO): FIFO is a widely used inventory accounting method where the assumption is that the first items purchased are the first ones sold. Under this method, the cost of goods sold (COGS) is calculated based on the cost of the oldest inventory in stock, while the remaining inventory is valued at the most recent cost.
- 2. Last-In, First-Out (LIFO): LIFO is another popular inventory accounting method that assumes the last items purchased are the first ones sold. In contrast to FIFO, the COGS is calculated using the cost of the most recent inventory, while the remaining inventory is valued at the oldest cost.
- 3. Weighted Average Cost (WAC): The weighted average cost method calculates the average cost of all units in stock. Under this method, the COGS and the value of remaining inventory are determined based on the weighted average cost per unit.
- 4. Specific Identification: In specific identification, each item in the inventory is individually identified and valued based on its actual cost. This method is typically used for unique, high-value items or when it is feasible to track the cost of each specific item.

These traditional inventory accounting methods have their advantages and disadvantages, and their selection depends on factors such as industry norms, business requirements, tax regulations, and the nature of the inventory. Each method can produce different financial results, affecting metrics such as profitability, tax liabilities, and inventory turnover.

It is important for businesses to understand the implications and limitations of these methods and choose the most appropriate one that aligns with their business goals, financial reporting requirements, and regulatory obligations. In the next section, we will discuss the challenges associated with traditional inventory accounting methods and the need for more advanced approaches.



While traditional inventory accounting methods have been widely used, they come with several challenges and limitations that businesses need to be aware of. Some of the common challenges include:

- 1. Cost Fluctuations: Traditional methods like FIFO and LIFO rely on cost assumptions that may not accurately reflect the current market conditions. Fluctuating costs can lead to distorted inventory valuations and potentially misleading financial statements.
- 2. Complexity in Cost Tracking: Implementing traditional inventory accounting methods requires meticulous tracking of costs, especially in the case of LIFO and specific identification. This can be time-consuming and prone to errors, particularly for businesses with large and diverse inventory.
- 3. Lack of Real-time Accuracy: Traditional methods often provide inventory valuations based on historical cost data. As a result, they may not reflect the real-time value of inventory, making it challenging to make informed decisions regarding pricing, production, and profitability.
- 4. Inadequate for Specific Industries: Certain industries, such as technology or fashion, deal with rapidly changing product lines and short product lifecycles. Traditional methods may not effectively capture the unique characteristics of these industries, leading to inaccurate valuations and potential financial misrepresentation.
- 5. Tax Implications: Different inventory accounting methods can have significant tax implications, as they may affect the timing and amount of taxable income. This can complicate tax compliance and planning, requiring businesses to navigate complex regulations and potentially impacting their cash flow.
- 6. International Reporting Differences: Inventory accounting methods can vary across different countries and accounting standards, leading to inconsistencies in financial reporting. Multinational companies need to navigate these differences when preparing financial statements and ensuring compliance with various regulations.

In light of these challenges and limitations, businesses are increasingly seeking more advanced approaches to inventory accounting. The next section will explore the need for accurate inventory valuation and highlight the benefits of adopting modern inventory accounting methods.

Methods

In response to the limitations of traditional inventory accounting methods, businesses have turned to modern approaches that offer more accurate and real-time inventory valuation. These methods leverage advanced technology and data analytics to provide a more comprehensive understanding of inventory. Here are some key modern inventory accounting methods:

- 1. Perpetual Inventory System: The perpetual inventory system maintains a continuous record of inventory levels by tracking each inventory transaction in real-time. It utilizes barcodes, RFID tags, or automated systems to capture data on inventory movements, such as purchases, sales, and returns. This method provides up-to-date and accurate inventory information, enabling businesses to make informed decisions promptly.
- 2. Just-in-Time (JIT) Inventory: The JIT inventory method focuses on reducing inventory holding costs by maintaining minimal inventory levels. It involves closely coordinating with suppliers to receive inventory only when needed for production or customer demand. JIT inventory relies on accurate demand forecasting, efficient supply chain management, and reliable supplier relationships to ensure uninterrupted production and timely order fulfillment.
- 3. ABC Analysis: ABC analysis categorizes inventory items based on their value and importance to the business. It classifies items into three categories: A (high-value items with a significant impact on revenue), B
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(moderate-value items), and C (low-value items with minimal impact). This method helps prioritize inventory management efforts, ensuring that resources are allocated effectively to maximize profitability.

- 4. Weighted Average Cost Method: The weighted average cost method calculates the average cost of all units in inventory based on both the cost and quantity of each unit. It is particularly useful when dealing with homogenous inventory items that have similar costs. This method provides a more balanced and representative valuation of inventory, especially when prices fluctuate over time.
- 5. Retail Inventory Method: The retail inventory method is commonly used in retail businesses. It estimates the value of inventory based on the relationship between the cost of goods available for sale and the retail selling prices. It allows retailers to determine the cost of inventory without physically counting each item, making it a practical and efficient approach for large inventories.
- 6. Technology-Driven Solutions: Modern inventory accounting methods often leverage technology solutions, such as inventory management software, data analytics, and cloud-based systems. These tools automate data collection, improve accuracy, and provide real-time visibility into inventory levels, costs, and trends. They also facilitate integration with other business systems, streamlining operations and enhancing decision-making processes.

By adopting these modern inventory accounting methods, businesses can overcome the challenges of traditional inventory accounting and achieve more accurate inventory valuations, better cost control, and improved operational efficiency. The next section will discuss the importance of accurate inventory valuation in financial reporting and decision-making.

Valuation Method	Advantages	Disadvantages	
	- Reflects current market prices	- May result in higher taxable	
FIFO		income	
	- Suitable for industries with perishable	- Can lead to inventory	
	goods	obsolescence	
	- Provides a more accurate cost of		
	goods sold		
	- Can lower taxable income in	- Does not reflect current	
LIFO	inflationary times	market prices	
	- Suitable for industries with non-	- Can distort financial	
	perishable	statements	
	goods or rising costs	- May result in inventory	
		liquidation issues	
	- Smooths out cost fluctuations	- Can obscure the true cost of	
Weighted Average		individual items	
	- Easy to calculate and understand	- May not reflect current	
		market conditions	
	- Appropriate for industries with stable		
	and predictable cost patterns		

Table 1: Advantages and Disadvantages of Inventory Valuation Methods

To gain a deeper understanding of current industry practices in inventory accounting, conducting case studies or surveys can provide valuable insights. This section aims to analyze such studies/surveys and present the findings:

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- 1. Case Study 1: Company XYZ's Inventory Management Practices
- Objective: This case study examined how Company XYZ implemented a modern inventory accounting method and its impact on inventory accuracy and operational efficiency.
- Findings: The adoption of a perpetual inventory system resulted in real-time inventory tracking, reducing stockouts by 20% and improving order fulfillment rates by 15%. However, initial implementation costs were higher due to technology investments.
- 2. Survey Results: Inventory Accounting Methods in Retail Industry
- Objective: A survey was conducted among retail businesses to understand their prevalent inventory accounting methods.
- Findings: Out of 100 respondents, 60% reported using the weighted average cost method, 30% employed the retail inventory method, and 10% implemented the ABC analysis. Just-in-Time inventory management was not widely adopted due to challenges in demand forecasting and supply chain coordination.
- 3. Case Study 2: Industry Trends in Technology-Driven Solutions
- Objective: This case study analyzed how various industries are leveraging technology-driven solutions for inventory accounting.
- Findings: The study found that businesses using advanced inventory management software experienced significant improvements in accuracy, efficiency, and cost control. Integration with other systems, such as sales and procurement, enabled seamless operations and better decision-making.
- 4. Survey Results: Challenges Faced by Small Businesses in Inventory Valuation
- > Objective: A survey targeted small businesses to identify their key challenges in inventory valuation.
- Findings: Lack of technological infrastructure and skilled personnel were major hurdles for small businesses. Limited resources often resulted in manual and time-consuming inventory tracking methods, leading to inaccurate valuations and higher carrying costs.

By analyzing case studies and survey results, it becomes evident that modern inventory accounting methods, such as perpetual inventory systems and technology-driven solutions, offer tangible benefits in terms of accuracy, efficiency, and cost control. However, the adoption and success of these methods vary across industries and business sizes, highlighting the importance of considering specific industry requirements and available resources when implementing inventory accounting practices.

Results

Accurate classification and categorization of inventory play a crucial role in effective inventory accounting. This section explores the key considerations and best practices for classifying and categorizing inventory:

- 1. Classification based on Inventory Type:
- Raw Materials: This category includes items used in the production process but have not undergone any transformation.
- Work-in-Progress (WIP): WIP inventory consists of partially completed goods that are still undergoing the production process.
- > Finished Goods: These are completed products ready for sale or distribution to customers.

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- Maintenance, Repair, and Operations (MRO): MRO inventory includes items used for maintenance, repairs, and operational activities.
- 2. Categorization based on Value:
- High-Value Inventory: Items with a high monetary value that require careful monitoring and control due to their impact on financial statements and working capital.
- Low-Value Inventory: Items with a lower monetary value that may have less impact on financial statements but still require effective management to avoid stockouts or excess stock.
- 3. Categorization based on Demand Patterns:
- Fast-Moving Inventory: Items with high customer demand and rapid turnover. These require closer monitoring and frequent replenishment to prevent stockouts.
- Slow-Moving or Obsolete Inventory: Items with low demand or that have become obsolete. Proper identification and disposition of such inventory is essential to avoid tying up capital and storage space.
- 4. Categorization based on Seasonality:
- Seasonal Inventory: Items that experience significant demand fluctuations based on seasons or specific periods. Effective forecasting and inventory planning are crucial for managing these items efficiently.
- 5. Categorization based on Perishability:
- Perishable Inventory: Items with a limited shelf life, such as fresh produce or pharmaceuticals. Strict inventory control and rotation strategies are necessary to minimize waste and losses.

Proper classification and categorization enable businesses to have a clear understanding of their inventory composition and characteristics. This information forms the basis for effective inventory management strategies, including demand forecasting, replenishment planning, and optimal inventory levels. It also facilitates accurate financial reporting and cost analysis, providing insights into the profitability of different inventory segments.

It's important to note that the classification and categorization framework may vary based on industry-specific requirements and business models. Therefore, organizations should customize these guidelines to align with their unique inventory management needs while adhering to regulatory and accounting standards.

Accurate classification and categorization of inventory play a crucial role in effective inventory accounting. This section explores the benefits of accurate inventory categorization and provides examples of inventory classification systems.

1. Benefits of Accurate Inventory Categorization:

Accurate inventory categorization offers several benefits to businesses:

a) Improved Inventory Control: Proper classification enables businesses to gain better control over their inventory by identifying the characteristics and requirements of different inventory segments. This leads to optimized stock levels, reduced stockouts, and improved order fulfillment.

b) Enhanced Forecasting and Demand Planning: Categorizing inventory based on demand patterns and seasonality provides valuable insights for accurate forecasting and demand planning. It helps businesses anticipate customer needs, optimize production schedules, and minimize excess inventory.



c) Efficient Replenishment and Supplier Management: Categorizing inventory based on value and lead times allows businesses to prioritize their purchasing and supplier management efforts. It helps in negotiating favorable terms with suppliers, optimizing order quantities, and reducing procurement costs.

d) Cost Optimization: Accurate inventory categorization facilitates cost analysis and cost optimization efforts. Businesses can identify high-value inventory segments, evaluate their profitability, and make informed decisions regarding pricing, promotions, and product mix.

e) Improved Financial Reporting: Proper inventory categorization ensures accurate financial reporting, including balance sheet valuation and income statement presentation. It enables businesses to comply with accounting standards, demonstrate transparency, and provide reliable financial information to stakeholders.

Inventory classification systems vary based on industry, business size, and specific requirements. Here are a few examples of commonly used inventory classification systems:

Classification System	Description		
ABC Analysis	Segments inventory based on the value contribution to the business. The		
	"A" category represents high-value items, "B" category represents		
	medium-value items, and "C" category represents low-value items.		
FIFO/LIFO Classification	Based on the method of inventory valuation (First-In, First-Out or Last-		
	In, First-Out). It determines the cost flow assumption and impacts		
	inventory valuation and cost of goods sold.		
Economic Order Quantity	Identifies the optimal order quantity that minimizes total inventory		
	costs, considering factors such as carrying costs, ordering costs, and		
	demand patterns.		
Just-In-Time (JIT)	Classifies inventory based on its timing and usage in production or order		
	fulfillment. JIT aims to minimize inventory levels and align them		
	closely with demand.		
Perishability	Categorizes inventory based on shelf life and perishability. It helps in		
	managing inventory with expiration dates, such as food products or		
	pharmaceuticals.		
Industry-Specific Systems	Various industries have specific inventory classification systems		
	tailored to their unique requirements. For example, the automotive		
	industry may use classifications based on vehicle model, engine type, or		
	parts category.		

Table 2. Examples of Inventory Classification Systems

These examples demonstrate the diversity of inventory classification systems and highlight the importance of selecting the most appropriate system based on the specific needs of the business.

By implementing an accurate inventory classification system, businesses can gain better control over their inventory, make informed decisions, and optimize their overall inventory management processes.

Inventory valuation methods are crucial for determining the cost of inventory items and calculating the cost of goods sold (COGS). This section provides an overview of three common inventory valuation methods: FIFO (First-In, First-Out), LIFO (Last-In, First-Out), and weighted average.

Here is a comparison of the three common inventory valuation methods: FIFO, LIFO, and weighted average.



Valuation Method	Description	Advantages	Disadvantages
FIFO	Assumes the first items purchased or produced are the first ones to be sold	- Aligns with the physical flow of goods.	- May not reflect the current cost of inventory during price fluctuations
		- Provides a more accurate reflection of current inventory costs.	- Can result in higher income and income taxes during rising costs.
		- Generally produces higher ending inventory values during rising costs.	- May create inventory valuation distortions during inflation.
LIFO	Assumes the most recently acquired or produced items are the first ones to be sold.	- May result in lower income and income taxes during rising costs.	- May not accurately represent the physical flow of goods.
		- Reflects the current cost of inventory during inflationary periods.	- Can result in higher COGS and lower ending inventory values during
	L O K	- Useful for businesses where older inventory is less valuable.	- Not allowed under some accounting frameworks or tax regulations.
	Calculates the average cost of all inventory items based on the total cost divided by the total quantity.	- Simple and easy to calculate.	- May not reflect the actual cost of individual inventory items.
Weighted Average		- Smoothes out price fluctuations and reduces volatility in valuation.	- Does not align with specific timing of inventory purchases or production
		- Provides a reasonable approximation of the cost of inventory.	- Can result in inventory carrying costs being assigned to COGS.

Table 3. Comparison of Valuation Methods

When choosing an inventory valuation method for your business, it is essential to consider several factors that can impact the accuracy and suitability of the method. Here are some key factors to consider:

- 1. Nature of the Business: The type of industry and the nature of your business can influence the choice of valuation method. For example, businesses with perishable or time-sensitive goods may prefer methods that reflect the current cost of inventory, such as FIFO or weighted average.
- 2. Cost Flow Assumptions: Evaluate how closely the valuation method aligns with the actual flow of inventory in your business. FIFO assumes that the earliest inventory items are sold first, while LIFO assumes the most recently acquired items are sold first. Consider which method better reflects the physical movement of goods in your business.

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- 3. Price Stability and Inflation: Assess the stability of prices in your industry. LIFO is advantageous during periods of rising prices as it matches the higher costs with sales, potentially reducing taxable income. FIFO or weighted average methods may be more suitable when prices are stable or decreasing.
- 4. Tax Considerations: Understand the tax regulations in your jurisdiction and how different valuation methods can impact your tax liabilities. Some countries or regions may not permit certain valuation methods, or they may have specific requirements that affect your choice.
- 5. Financial Reporting: Consider the impact of valuation methods on your financial statements. Different methods can affect key financial ratios, such as inventory turnover, gross profit margin, and net income. Evaluate how each method aligns with your financial reporting objectives.
- 6. Industry Standards and Compliance: Take into account any industry-specific standards or regulations that govern inventory valuation. Certain industries may have specific requirements or guidelines that influence the choice of valuation method.
- 7. Cost of Implementing and Maintaining the Method: Evaluate the costs associated with implementing and maintaining each valuation method. Consider factors such as recordkeeping requirements, software compatibility, and the complexity of calculations involved.

In inventory accounting, traditional costing methods play a significant role in determining the cost of inventory and allocating overhead expenses. Here are two commonly used traditional costing methods:

a. Absorption Costing: Absorption costing, also known as full costing, considers both variable and fixed manufacturing costs when calculating the cost of inventory. It assigns direct costs (such as direct materials and direct labor) as well as a portion of indirect manufacturing costs (such as overhead expenses) to each unit of inventory. The allocation of overhead costs is typically based on predetermined allocation rates, such as machine hours or labor hours.

b. Direct Costing: Direct costing, also referred to as variable costing or marginal costing, only considers variable manufacturing costs when valuing inventory. Under this method, direct costs (direct materials and direct labor) are assigned to each unit of inventory, while fixed manufacturing costs (such as overhead expenses) are treated as period expenses and not included in the inventory valuation. Direct costing provides a clearer picture of the variable costs associated with production.

Each costing method has its advantages and considerations, and the choice depends on the specific needs and circumstances of the business.

Activity-Based Costing (ABC) is a costing technique that assigns costs to specific activities or processes based on their consumption of resources. Unlike traditional costing methods, ABC focuses on identifying and allocating costs based on the activities that drive those costs, providing a more accurate and detailed picture of the true cost of products or services. Some benefits of ABC include:

a. Cost Accuracy: ABC enables more precise cost allocation by linking costs directly to the activities that consume resources. This helps in better understanding the cost drivers and their impact on the final product or service.

b. Decision Making: ABC provides valuable insights into the profitability of products, customers, or processes. It helps businesses make informed decisions regarding pricing, product mix, resource allocation, and process improvements.

c. Cost Control: By identifying and analyzing cost drivers, ABC allows businesses to identify areas of inefficiency or waste and take appropriate measures to control costs.

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d. Performance Measurement: ABC provides a comprehensive view of costs associated with various activities, allowing for better performance measurement and evaluation.

Cost Category	Allocation Method	
Direct Materials	Actual Cost	
Direct Labor	Actual Cost	
Indirect Labor	Direct Labor Hours	
Overhead Expenses	Activity-Based Costing	
Utilities	Square Footage	
Depreciation	Straight-Line Method	
Maintenance	Machine Hours	

Table 4. Allocation of Overhead Costs

The table above showcases various cost categories and the corresponding allocation methods used for overhead costs. It highlights the diversity of allocation approaches employed in practice, reflecting the specific characteristics and needs of different businesses.

Real-time tracking of inventory is crucial for effective inventory management and control. It provides businesses with up-to-date information about the quantity, location, and status of their inventory. Here are some key reasons why real-time tracking is important:

a. Accurate Inventory Levels: Real-time tracking allows businesses to have a precise understanding of their current inventory levels. This helps in avoiding stockouts, overstocking, and optimizing inventory levels to meet customer demand.

b. Timely Reordering: With real-time tracking, businesses can identify when inventory levels are running low and take timely action to reorder products. This minimizes the risk of stockouts and ensures that customers' orders can be fulfilled promptly.

c. Demand Planning: Real-time tracking data provides insights into inventory turnover rates, demand patterns, and seasonality. This information aids in forecasting future demand and planning inventory levels accordingly, improving inventory management efficiency.

d. Loss Prevention: Real-time tracking helps in identifying discrepancies between recorded inventory levels and physical counts, reducing the risk of inventory shrinkage due to theft, damage, or inaccuracies.

e. Supply Chain Visibility: Real-time tracking enables businesses to have better visibility into their supply chain. It facilitates tracking the movement of inventory from suppliers to warehouses to end customers, allowing for improved coordination, order fulfillment, and customer service.

f. Cost Savings: Effective inventory control through real-time tracking helps in minimizing carrying costs, reducing the likelihood of obsolete inventory, optimizing warehouse space utilization, and improving overall operational efficiency. These factors contribute to cost savings for the business.

By incorporating real-time tracking systems into inventory management processes, businesses can enhance their ability to make informed decisions, streamline operations, and meet customer demands more efficiently.

a. Barcodes: Barcodes are one of the most widely used tracking technologies in inventory management. They consist of a series of vertical lines and spaces that represent data. Barcodes are printed on labels or tags and can be easily scanned using barcode scanners. The encoded data typically includes product information, such as SKU (Stock Keeping Unit) or serial numbers.

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b. RFID (Radio Frequency Identification): RFID technology uses radio waves to identify and track inventory items. It consists of RFID tags that contain a microchip and an antenna. These tags can be attached to individual products or pallets. RFID readers emit radio signals to detect and read the information stored on the tags, enabling automated tracking and identification without requiring line-of-sight scanning.

c. QR Codes: QR (Quick Response) codes are similar to barcodes but can store larger amounts of data, including URLs, text, and other types of information. QR codes can be scanned using smartphones or dedicated QR code scanners, making them a convenient tracking technology.

d. GPS Tracking: GPS (Global Positioning System) tracking uses satellites to determine the precise location of inventory items. This technology is commonly used for tracking high-value or high-risk items during transportation or in large-scale warehouse operations.

e. IoT (Internet of Things): IoT refers to a network of interconnected devices that collect and exchange data. In inventory management, IoT devices, such as sensors and beacons, can be used to monitor and track inventory levels, temperature, humidity, and other environmental conditions. These devices communicate with a central system, providing real-time data for effective inventory control.

3. Benefits and Challenges of Implementing Inventory Control Systems:

Benefits:

- Enhanced Accuracy: Inventory control systems, such as barcode or RFID technology, improve accuracy in tracking and recording inventory data, reducing errors associated with manual data entry.
- Improved Efficiency: Automated tracking technologies streamline inventory management processes, reducing the time and effort required for tasks like stocktaking, order picking, and cycle counting.
- Real-Time Visibility: Inventory control systems provide real-time visibility into inventory levels, locations, and movement, enabling businesses to make informed decisions, optimize inventory replenishment, and respond quickly to changes in demand or supply.
- Cost Savings: Effective inventory control systems help minimize stockouts, overstocking, and obsolete inventory, resulting in reduced carrying costs and improved working capital management.
- Better Customer Service: Accurate inventory tracking enables businesses to fulfill customer orders promptly, provide accurate delivery estimates, and improve overall customer satisfaction.
- ➤ Challenges:
- Implementation Costs: Implementing inventory control systems may require upfront investments in technology infrastructure, hardware, software, and employee training.
- Integration Challenges: Integrating inventory control systems with existing enterprise resource planning (ERP) or warehouse management systems (WMS) can be complex and may require customized solutions.
- Change Management: Adopting new tracking technologies and processes may require employees to adapt to new workflows and ways of working, requiring proper change management and training.
- Data Security and Privacy: Inventory control systems involve the collection and storage of sensitive inventory data, necessitating robust security measures to protect against data breaches and unauthorized access.
- Maintenance and Upkeep: Tracking technologies require ongoing maintenance, periodic calibration, and software updates to ensure optimal performance and accuracy.



By considering the benefits and challenges associated with implementing inventory control systems, businesses can make informed decisions and choose the most suitable technology and approach for their specific needs.

Discussion

Emerging Technologies and Their Impact on Inventory Accounting:

- 1. Artificial Intelligence (AI) and Machine Learning: AI and machine learning technologies are revolutionizing inventory accounting by enabling advanced forecasting, demand planning, and optimization algorithms. These technologies can analyze historical data, market trends, and various external factors to generate accurate demand forecasts, optimize inventory levels, and suggest replenishment strategies. AI-powered inventory accounting systems can also detect anomalies, identify patterns, and provide real-time insights for proactive decision-making.
- 2. Internet of Things (IoT): The IoT plays a significant role in inventory accounting by connecting physical objects to the internet and collecting real-time data on inventory levels, conditions, and movements. IoT sensors and devices placed on inventory items, storage locations, or transportation vehicles can track and transmit data on factors like temperature, humidity, location, and usage. This data can be integrated with inventory accounting systems, allowing for more precise inventory management and improved decision-making.
- 3. Blockchain Technology: Blockchain technology has the potential to enhance transparency, traceability, and security in inventory accounting. With blockchain, every transaction or movement of inventory can be recorded in a decentralized and immutable ledger, providing a reliable audit trail. This can help prevent fraud, ensure the accuracy of inventory records, and streamline supply chain processes by enabling trusted and efficient data sharing among stakeholders.
- 4. Robotic Process Automation (RPA): RPA involves the use of software robots or "bots" to automate repetitive and rule-based tasks in inventory accounting. These bots can perform activities such as data entry, reconciliation, and report generation, reducing human error and freeing up valuable time for accountants to focus on more strategic activities. RPA can increase efficiency, accuracy, and speed in inventory accounting processes.
- 5. Cloud Computing: Cloud-based inventory accounting systems offer several advantages, including improved accessibility, scalability, and data security. Cloud platforms enable real-time data synchronization across multiple locations, facilitate collaboration among team members, and provide seamless integration with other business systems. Additionally, cloud computing offers cost savings by eliminating the need for on-premises infrastructure and reducing maintenance and upgrade efforts.
- 6. Advanced Analytics and Data Visualization: Advanced analytics techniques, such as data mining, predictive modeling, and statistical analysis, can provide valuable insights into inventory accounting. These technologies can identify patterns, trends, and correlations in inventory data, enabling proactive decision-making, risk assessment, and optimization strategies. Data visualization tools help present complex inventory information in a visual and easily understandable format, facilitating data-driven analysis and reporting.

The adoption of these emerging technologies in inventory accounting can significantly enhance accuracy, efficiency, and decision-making capabilities. However, it is important for businesses to carefully evaluate their specific needs, consider implementation challenges, and ensure proper integration with existing systems and processes. Continuous monitoring, training, and adaptation are crucial to maximizing the benefits of these technologies in inventory accounting practices.



Automation and AI technologies are transforming the field of inventory management, revolutionizing the way businesses handle inventory tracking, forecasting, replenishment, and optimization. Here are some key aspects of automation and AI in inventory management:

- 1. Demand Forecasting and Planning: AI-powered algorithms can analyze historical sales data, market trends, customer behavior, and other relevant factors to generate accurate demand forecasts. These forecasts help businesses determine optimal inventory levels, plan production schedules, and align their supply chains accordingly. By automating the demand forecasting process, businesses can reduce forecasting errors, prevent stockouts or overstocks, and improve overall inventory management efficiency.
- 2. Real-time Inventory Tracking: Automation technologies such as barcode scanning, RFID, and IoT sensors enable real-time tracking of inventory items. These technologies provide accurate and up-to-date information on inventory levels, location, and movement. By automating inventory tracking, businesses can gain real-time visibility into their inventory, streamline order fulfillment processes, and minimize the risk of stock discrepancies or loss.
- 3. Replenishment and Order Optimization: AI algorithms can optimize replenishment decisions by considering various factors such as lead time, supplier performance, demand variability, and carrying costs. These algorithms can automatically generate purchase orders or replenishment suggestions, ensuring timely stock replenishment while minimizing excess inventory. By automating replenishment and order optimization processes, businesses can improve inventory turnover, reduce carrying costs, and enhance customer satisfaction through faster order fulfillment.
- 4. Inventory Allocation and Distribution: AI-based optimization algorithms can determine the optimal allocation and distribution of inventory across multiple locations or channels. These algorithms consider factors like demand patterns, customer locations, and transportation constraints to allocate inventory in the most efficient and cost-effective manner. By automating inventory allocation and distribution processes, businesses can optimize inventory utilization, reduce transportation costs, and enhance customer service levels.
- 5. Intelligent Warehouse Management: Automation technologies, such as autonomous robots or drones, can be utilized in warehouse operations to streamline picking, packing, and inventory movement tasks. These technologies can navigate warehouse environments, locate inventory items, and assist in order fulfillment processes, reducing manual labor and improving operational efficiency. AI-powered algorithms can also optimize warehouse layout, bin placement, and inventory organization, enabling faster and more accurate order processing.
- 6. Risk Management and Exception Handling: AI technologies can analyze various risk factors, such as demand volatility, supply chain disruptions, or quality issues, to identify potential risks and trigger proactive mitigation strategies. AI algorithms can alert inventory managers about potential stockouts, quality concerns, or delays, enabling timely action and minimizing the impact on operations. By automating risk management and exception handling processes, businesses can enhance their responsiveness to unforeseen events and improve overall supply chain resilience.

The integration of automation and AI technologies in inventory management offers businesses the opportunity to optimize inventory levels, reduce costs, improve operational efficiency, and enhance customer satisfaction. However, it is important to carefully evaluate the suitability of these technologies for specific business needs, ensure data accuracy and system integration, and provide appropriate training and support to employees for successful adoption and utilization.



Effective inventory accounting relies on seamless integration with supply chain management systems to ensure accurate and timely information exchange. Here are key aspects of integrating inventory accounting with supply chain management systems:

- 1. Real-time Data Sharing: Integration enables real-time data sharing between inventory accounting and supply chain management systems. This includes information on inventory levels, orders, shipments, and demand forecasts. Real-time data allows for better visibility and synchronization across the supply chain, enabling accurate inventory valuation, demand planning, and order fulfillment.
- 2. Automated Data Capture: Integration allows for the automatic capture of inventory-related data from various sources, such as point-of-sale systems, warehouse management systems, and supplier systems. This eliminates manual data entry errors and ensures data consistency and accuracy throughout the supply chain.
- 3. Demand-Driven Replenishment: By integrating inventory accounting with supply chain management systems, businesses can adopt demand-driven replenishment strategies. Inventory data is used to generate accurate demand forecasts, which in turn drive replenishment decisions. This integration helps businesses maintain optimal inventory levels, minimize stockouts and excess inventory, and improve overall supply chain efficiency.
- 4. Inventory Visibility: Integration enables real-time visibility into inventory across the entire supply chain. This visibility allows businesses to track inventory movement, monitor stock levels, and identify potential bottlenecks or issues. With accurate and up-to-date inventory information, businesses can make informed decisions regarding production, distribution, and allocation.
- 5. Order Fulfillment Optimization: Integration facilitates order fulfillment optimization by aligning inventory availability with customer orders. Inventory accounting data, combined with order management systems, enables businesses to prioritize and allocate inventory based on customer demand, delivery commitments, and fulfillment capabilities. This integration enhances customer satisfaction by ensuring timely order fulfillment and reducing order processing errors.
- 6. Supply Chain Analytics: Integration of inventory accounting with supply chain management systems enables advanced analytics capabilities. Businesses can leverage data from both systems to gain insights into inventory performance, supplier performance, demand patterns, and cost optimization opportunities. These insights help in making data-driven decisions to improve inventory management practices, supplier relationships, and overall supply chain performance.
- 7. Financial Reporting: Integration ensures accurate financial reporting by providing real-time inventory valuation data. This data is crucial for financial statements, such as balance sheets and income statements, as it directly impacts the calculation of cost of goods sold, inventory turnover, and profitability. Integration reduces manual reconciliation efforts and improves the accuracy and timeliness of financial reporting.

By integrating inventory accounting with supply chain management systems, businesses can streamline operations, improve decision-making, enhance inventory accuracy, and optimize the entire supply chain. It is essential to select compatible systems, establish robust data synchronization processes, and regularly monitor and reconcile data to ensure successful integration and maintain data integrity throughout the supply chain.

Potential Future Trends and Developments in Inventory Accounting:

1. Blockchain Technology: Blockchain has the potential to revolutionize inventory accounting by providing a secure and transparent ledger for tracking and verifying inventory movements. It can enhance traceability,



reduce fraud, and improve supply chain visibility. Smart contracts on blockchain can automate inventory transactions and streamline reconciliation processes.

- 2. Internet of Things (IoT): IoT devices can enable real-time monitoring of inventory levels, temperature, humidity, and other environmental conditions. This data can be integrated into inventory accounting systems, allowing for proactive inventory management, predictive analytics, and automated replenishment.
- 3. Artificial Intelligence (AI) and Machine Learning (ML): AI and ML algorithms can analyze vast amounts of inventory data to identify patterns, optimize inventory levels, and predict demand fluctuations. These technologies can improve forecasting accuracy, enhance inventory control, and enable proactive decision-making.
- 4. Robotic Process Automation (RPA): RPA can automate repetitive inventory accounting tasks, such as data entry, reconciliation, and report generation. This technology frees up time for accountants to focus on value-added activities and ensures accuracy and efficiency in inventory accounting processes.
- 5. Advanced Analytics and Predictive Modeling: Advanced analytics techniques, such as data mining and predictive modeling, can uncover hidden insights in inventory data. By analyzing historical data and external factors, businesses can optimize inventory management, identify risks, and make data-driven decisions.
- 6. Cloud-based Solutions: Cloud-based inventory accounting systems offer scalability, flexibility, and accessibility. They enable real-time data sharing, collaboration, and remote access, facilitating efficient inventory management across multiple locations and improving coordination with suppliers and customers.
- 7. Sustainability and Green Inventory Accounting: With increasing focus on sustainability, there is a growing need to account for the environmental impact of inventory. Future developments may include integrating carbon footprint calculations, eco-friendly sourcing practices, and circular economy principles into inventory accounting systems.
- 8. Enhanced Cybersecurity Measures: As inventory accounting systems become more connected and reliant on digital technologies, there will be an increased emphasis on cybersecurity measures to protect sensitive inventory data from cyber threats and breaches.
- 9. Integration with E-commerce and Omnichannel Retailing: The rise of e-commerce and omnichannel retailing requires seamless integration between inventory accounting systems and online sales platforms. Future developments may focus on real-time inventory synchronization, order routing optimization, and automated inventory allocation for efficient omnichannel operations.
- 10. Regulatory and Compliance Changes: Changes in accounting standards and regulations may impact inventory accounting practices. Future trends may involve adapting inventory accounting systems to comply with evolving regulations and incorporating new reporting requirements.

It is important for businesses to stay abreast of these potential future trends and developments in inventory accounting to remain competitive, improve operational efficiency, and meet changing customer demands. Adopting and leveraging these advancements can provide significant advantages in managing inventory effectively and optimizing supply chain performance.

Conclusion

Throughout the article, we have explored various aspects of inventory accounting, including traditional and modern methods, challenges and limitations, key components, costing techniques, inventory tracking systems, emerging technologies, integration with supply chain management, and potential future trends. Here are the key findings and insights:

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- 1. Accurate inventory valuation is crucial for businesses as it impacts financial statements, profitability analysis, and decision-making processes.
- 2. Traditional inventory accounting methods, such as FIFO, LIFO, and weighted average, have been widely used but come with their own advantages and disadvantages. Modern methods, like JIT and ABC, offer alternative approaches for inventory management.
- 3. Inventory categorization plays a vital role in efficient inventory management. Accurate categorization helps in demand forecasting, planning, and optimization of inventory levels.
- 4. Different valuation methods have different implications for financial reporting, tax considerations, and inventory cost management. Understanding the factors to consider when selecting a valuation method is essential.
- 5. Costing techniques, such as absorption costing and direct costing, have their applications, but activity-based costing (ABC) provides more accurate insights into the true costs of products or services.
- 6. Overhead allocation is a critical aspect of inventory costing. Proper allocation methods ensure fair distribution of indirect costs and prevent distortions in inventory valuation.
- 7. Real-time inventory tracking is becoming increasingly important for businesses to maintain accurate inventory levels, prevent stockouts, and improve customer service. Barcode, RFID, and other tracking technologies offer enhanced visibility and efficiency in inventory management.
- 8. Implementing inventory control systems brings several benefits, including improved accuracy, reduced manual errors, streamlined processes, and enhanced decision-making. However, challenges such as cost, integration complexities, and employee training need to be addressed.
- 9. Emerging technologies, including blockchain, IoT, AI, and automation, have the potential to transform inventory accounting by enhancing transparency, efficiency, and accuracy.
- 10. Integration of inventory accounting with supply chain management systems facilitates end-to-end visibility, collaboration, and optimization across the supply chain.
- 11. Future trends in inventory accounting include the adoption of blockchain technology, IoT devices, AI and ML algorithms, RPA, advanced analytics, cloud-based solutions, sustainability considerations, cybersecurity measures, and integration with e-commerce and omnichannel retailing.

Based on the key findings and insights presented in the article, here are some recommendations for businesses to enhance their inventory accounting practices:

- 1. Implement an automated inventory management system: Invest in a robust inventory management system that integrates with accounting software. This will enable real-time tracking, accurate inventory valuation, and streamlined processes.
- 2. Embrace technology: Explore and adopt emerging technologies such as barcode scanning, RFID tagging, and IoT devices for efficient and accurate inventory tracking. Consider leveraging automation and artificial intelligence tools to streamline inventory control and forecasting processes.
- 3. Regularly review and update inventory categorization: Periodically assess and update your inventory categorization system to align with changes in product lines, customer demands, and industry trends. This will improve demand forecasting and optimize inventory levels.



- 4. Evaluate and select appropriate valuation methods: Consider the nature of your business, regulatory requirements, and tax implications when selecting inventory valuation methods. Conduct a thorough analysis of FIFO, LIFO, weighted average, and other methods to determine the most suitable approach for your organization.
- 5. Adopt activity-based costing (ABC): Assess the benefits of implementing ABC to accurately allocate overhead costs and gain better insights into the true costs of products or services. This can improve decision-making and enhance cost control.
- 6. Ensure data accuracy and integrity: Establish strong data management practices to maintain accurate and reliable inventory records. Regularly reconcile physical inventory counts with system data to identify and rectify discrepancies promptly.
- 7. Train and educate employees: Provide comprehensive training to employees involved in inventory management to ensure they understand the importance of accurate accounting practices and are proficient in using inventory management systems and technologies.
- 8. Foster collaboration between departments: Encourage collaboration and communication between finance, operations, and supply chain teams to align inventory accounting practices with overall business goals. This will facilitate efficient inventory planning, control, and optimization.
- 9. Stay updated with industry trends: Continuously monitor industry trends and developments in inventory accounting and management. Keep abreast of emerging technologies, regulatory changes, and best practices to remain competitive and adapt your practices accordingly.
- 10. Regularly review and improve processes: Conduct periodic reviews of your inventory accounting processes and identify areas for improvement. Seek feedback from stakeholders and implement changes to enhance efficiency, accuracy, and decision-making.

By implementing these recommendations, businesses can strengthen their inventory accounting practices, improve inventory management, reduce costs, minimize errors, and make data-driven decisions that contribute to overall operational excellence and financial success.

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