# Chapter Six Just In Time Costing and Backflush Costing تحديد الكلفة في ظل الوقت المحدد وتحديد الكلفة ارتجاعيا (تحديد الكلفة في ظل التدفق العكسى)

Learning Objectives

- 1. Describe why companies are using just in time production system.
- 2. Define the just in time production system.
- 3. Explain the effect of JIT Systems on Product Costing.
- 4. Identify the features of a just-in-time production system.
- 5. Define the backflush costing.
- 6. Describe different ways backflush costing can simplify traditional inventory-costing systems.

The current business environment is witnessing tremendous developments, most notably the fierce competition between the economic units, the information revolution, the technological progress, the resulting high costs, the great openness in trade and investment, the fluctuation in the tastes of customers and their desire to search for products that enjoy low prices and high quality that Resulting in a short life cycle of products. In the face of all these developments, it was natural for economic

Approach	Number of trigger points	The site holds journal entries in the accounting cycle
ywangiwansi dan gisha nazigi saba cinajiwi wake najiki najiki nyantesh cishi mipulici simen		Stage (A): Purchase of direct materials
First	3	Stage(C): Completion of finished goods
		Stage (D): Sale of finished goods
Second	2	Stage (A): Purchase of direct materials
		Stage (D): Sale of finished goods
Third	2	Stage(C): Completion of finished goods
		Stage (D): Sale of finished goods

سررها والان

ان هذه هي الدورة المحاسبية التي تبدأ من عملية الشراء ثم الانطلاق بالإنتاج, ثم الاتمام, ثم بيع الانتاج التام, أي بمعنى اخر هنالك أربعة نقاط الحدث والتي تسمى (Trigger points) نقاط الحدث والتي تسمى (Trigger points) نقاط الحدث فكل مرحلة من المراحل أعلاه تكون بمثابة نقطة او اشارة والتي تتطلب تسجيل قيد محاسبي في اليومية اذ تبدأ هذه المراحل بالتعاقب من المرحلة (C,B,A, ثم D) والحقيقة ان هذا التعقب والتسجيل التتابعي غالبا ما يكون مكلف والمدخل البديل لهذا التعقب والتمثيل التتابعي هو ما يطلق عليه بتحديد الكلفة ارتجاعيا.

ويعرف بانه طريقة لتحديد الكلفة تقوم على اساس حذف او الغاء تسجيل بعض او كل قيود اليومية المرتبطة بالدورة المحاسبية منذ شراء المواد المباشرة وصولا الى بيع الانتاج التام, وعندما يتم تأجيل قيود اليومية لمرحلة او اكثر في الدورة المحاسبية, فان القيود المحاسبية للمرحلة اللاحقة تستخدم التكاليف العادية او المعيارية لعمل اتجاه عكسي لتدفق التكاليف في الدورة المحاسبية التي لم يتم تسجيل قيود اليومية لها.

وتجدر الاشارة ان تحديد الكلفة ارتجاعيا غالبا ما يأتي مصاحبا لنظام الانتاج

في الوقت المحدد و اذ انه في ظل هذا النظام يكون المخزون بنسب ضئيلة جدا يكاد يقترب من الصفر و طريقة تحديد الكلفة ارتجاعيا تسهل من عمل هذا النظام دون حدوث اي خسارة في المعلومات . الما عن تحديد الكلفة ارتجاعيا فهنالك ثلاث مداخل لتحديدها وهي تختلف في اما عن تحديد الكلفة ارتجاعيا فهنالك ثلاث مداخل لتحديدها وهي تختلف في

عدها وحسب نقاط الحدث وكالاتي:

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To illustrate an application of backflush costing method, take the following data for the month of April for Silicon Valley Computer (SVC), which produces keyboards for personal computers.

1. There are no beginning inventories of direct materials and no beginning or ending work-in-process inventories.

2. SVC has only one direct manufacturing cost category (direct materials) and one indirect manufacturing cost category (conversion costs). All manufacturing labor costs are included in conversion costs.

From its bill of materials and an operations list (description of operations to be undergone). SVC determines that the standard direct material cost per keyboard unit is \$19 and the standard conversion cost is

\$12.

4. SVC purchases \$1,950,000 of direct materials. To focus on the basic concepts, we assume SVC has no direct materials variances. Actual conversion costs equal \$1,260,000. SVC produces 100,000 good keyboard units and sells 99,000 units.

5. Any underallocated or overallocated conversion costs are written off to cost of goods sold at the end of April. We use three examples to illustrate backflush costing. They differ in the number and placement of trigger points.

Note that there is no journal entry for Production resulting in work in process (Stage B) because JIT production has minimal work in process.

The following Journal Entries and General Ledger

Overview for Backflush Costing with Three Trigger

Points: Purchase of Direct Materials and Incurring of

Conversion Costs, Completion of Good Finished Units

of Product, and Sale of Finished Goods

Mnel A: Journal Entries Stage A: Record Purchase of Direct Materials and Incurring of Conversion Costs - Record Direct Materials Purchased Entry (A1) Materials and In-Process Inventory Control 1 950 000 **Accounts Payable Control** . 1 950 000 ت شيل طعلم 2- Record Conversion Costs Incurred. Entry (A2) **Conversion Costs Control** 1 260 000 Various accounts (such as Wages **Payable Control)** 1.260 000 لاؤمر وله اسال ب رسير لانام ديما Stage B: Record Production Resulting in Work in Process.

Stage C: Record Cost of Good Finished Units Completed. (2, Let ) 2 2000 1 1000 011118 Entry (C1) Finished Goods Control (12+19\*100000 unit) 3 100 000

No Entry Recorded

Materials and In-Process Inventory Control 1 900 000 Conversion Costs Allocated 1 200 000

Entry (B1)

# Chipa, Erron

Stage D: Record Cost of Finished Goods Sold (and Under- or Overallocated Conversion Costs).

1. Record Cost of Finished Goods Sold.

Entry (D1)

Cost of Goods Sold 3 069 000

Finished Goods Control 3 069 000

2.Record Under allocated or Overallocated Conversion Costs.

Entry (D2)

Conversion Costs allocated 1200000
Cost of Goods Sold 60 000
Conversion Costs Control 1 260 000

Panel B: General Ledger Overview

Materials and In-Process Inventory  Control		Finished Goods Control	
(A1) 1,950,000	(C1) 1,900,000	(C1) 3,100,000	(D1) 3,069,000
Bal. 50,000		Bal. 31,000	
Conversion Costs Allocated		Cost of Goods Sold	
(D2) 1,200,000	(C1) 1,200,000	(D1) 3,069,000	
7.12444		(D2) 60,000	
Conversion	Costs Control	en de seminanta municipalismo e dismonina del reproductivo mendenda medicana a dismoni	
(A2) 1,260,000	(D2) 1,260,000	3,129,000	

The following Journal Entries and General Ledger Overview for Backflush Costing with Two Trigger Points: Purchase of Direct Materials and Incurring of Conversion Costs, and Sale of Finished Goods.

#### Panel A: Journal Entries

Stage A: Record Purchase of Direct Materials and Incurring of Conversion Costs

#### 1. Record Direct Materials Purchased

Entry (A1)

**Inventory Control** 

1 950 000

**Accounts Payable Control** 

1 950 000

#### 2- Record Conversion Costs Incurred.

Entry (A2)

Conversion Costs Control 1 260 000

Various accounts (such as Wages

Payable Control)

1 260 000

Stage B: Record Production Resulting in Work in Process

Entry (B1): No Entry Recorded

Stage C: Record Cost of Good Finished Units Completed.

Entry (C1): No Entry Recorded

Stage D: Record Cost of Finished Goods Sold (and Under- or Overallocated Conversion Costs).

## 1. Record Cost of Finished Goods Sold.

Entry (D1):

Cost of Goods Sold

3 069 000

**Inventory Control** 

1 881 000

Conversion Costs Allocated

1 188 000

2. Record Under allocated or Overallocated Conversion Costs.

Entry (D2):

Conversion Costs allocated

1 188 000

Cost of Goods Sold

72 000

**Conversion Costs Control** 

1 260 000

Panel B: General Ledger Overview

Inventor	y Control		
(A1) 1,950,000	(D1) 1,881,000		
Bal. 69,000			
Conversion Costs Allocated		Cost of Goods Sold	
and the second section of the sectio	(D1) 1,188,000	(D1) 3,069,000	
(D2) 1,188,000		(D2) 72,000	
Conversion (A2) 1,260,000	Costs Control (D2)-1,260,000	3,141,000	

**Example 3:** The two trigger points are Completion of good finished units of product (Stage C) and Sale of finished goods (Stage D).

The following Journal Entries and General Ledger Overview for Backflush Costing with Two Trigger Points: Completion of Good Finished Units of Product and Sale of Finished Goods.

#### Panel A: Journal Entries

Stage A: Record Purchase of Direct Materials and Incurring of Conversion Costs

#### 1. Record Direct Materials Purchased

Entry (A1): No Entry Recorded

#### 2. Record Conversion Costs Incurred.

#### Entry (A2):

Conversion Costs Control 1 260 000
Various accounts (such as Wages
Payable Control) 1260000

Stage B: Record Production Resulting in Work in Process.

Entry (B1): No Entry Recorded

gage C: Record Cost of Good Finished Units Completed.

Entry (C1):

Finished Goods Control ((12+19)\*100000unit)

Accounts payable control

Conversion Costs Allocated

3 100 000

1 900 000

1 200 000

Stage D: Record Cost of Finished Goods Sold (and Under- or Overallocated Conversion Costs).

### Record Cost of Finished Goods Sold.

Entry (D1):

Cost of Goods Sold

3 069 000

Finished Goods Control 3069000

2. Record Under allocated or Overallocated Conversion

Costs.

Entry (D2):

Conversion Costs allocated

1200000

Cost of Goods Sold

60000

Conversion Costs Control

1 260 000