

# Multi-level surcharge-based Product Cost Controlling (CO-PC II)

This case study describes an integrated process in product cost controlling. Using the underlying SAP functionalities (including overhead costing), the costs for multi-level products are calculated.

**Product**

S/4HANA 2022  
Global Bike

Fiori 3.0

**Level**

Bachelor  
Master  
Advanced

**Focus**

Product cost calculation

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**Version**

4.2

**Last change**

August 2023

**SAP**  
**University**  
**Alliances**

**MOTIVATION**

In the case study Product Cost Controlling (CO-PC I) you got to know a single-stage product cost calculation on the basis of already existing material master data, parts lists and routings for a bicycle from Global Bike.

In this advanced case study, you are now asked to determine the costs of two different bicycle computers on the basis of a multi-level product structure and with a stored overhead calculation scheme. On the one hand, you use materials that have already been created. On the other hand, you create another material yourself and calculate both an assembly, two semi-finished products and the two variants of the final product.

Finally, you calculate the cost of goods manufactured and the cost of goods sold of the end products on the basis of a cost estimate with quantity structure, using the BOM's of the products.

**PREREQUISITES**

In order to carry out this CO case study successfully, it is recommended to work through the case study Product Cost Controlling (CO-PC I) beforehand. However, it is not necessary.

**NOTES**

This case study uses the model company Global Bike, which was developed exclusively for SAP UA Curricula.



## Process Overview

**Learning Objective** To understand and apply an integrated process in product cost controlling based on a multi-level product structure. Practical execution of an overhead costing for standard production costs known from the basics of cost accounting.

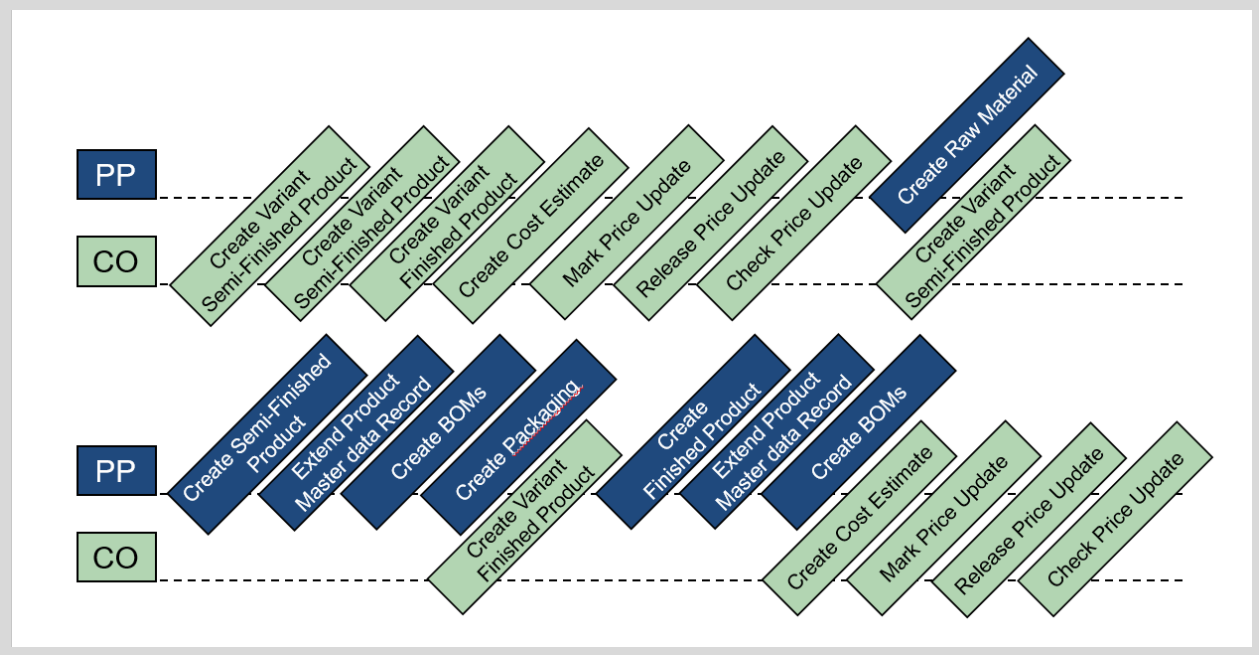
**Time** ~245  
Min. + 60  
Min.

Optional  
task

**Scenario** To carry out the complete process of multi-level overhead costing, you will take on different roles in the Global Bike company. You will start in production controlling with an existing product, before you create further master data in materials management and production in order to be able to carry out a new sample and material cost estimate with quantity structure.

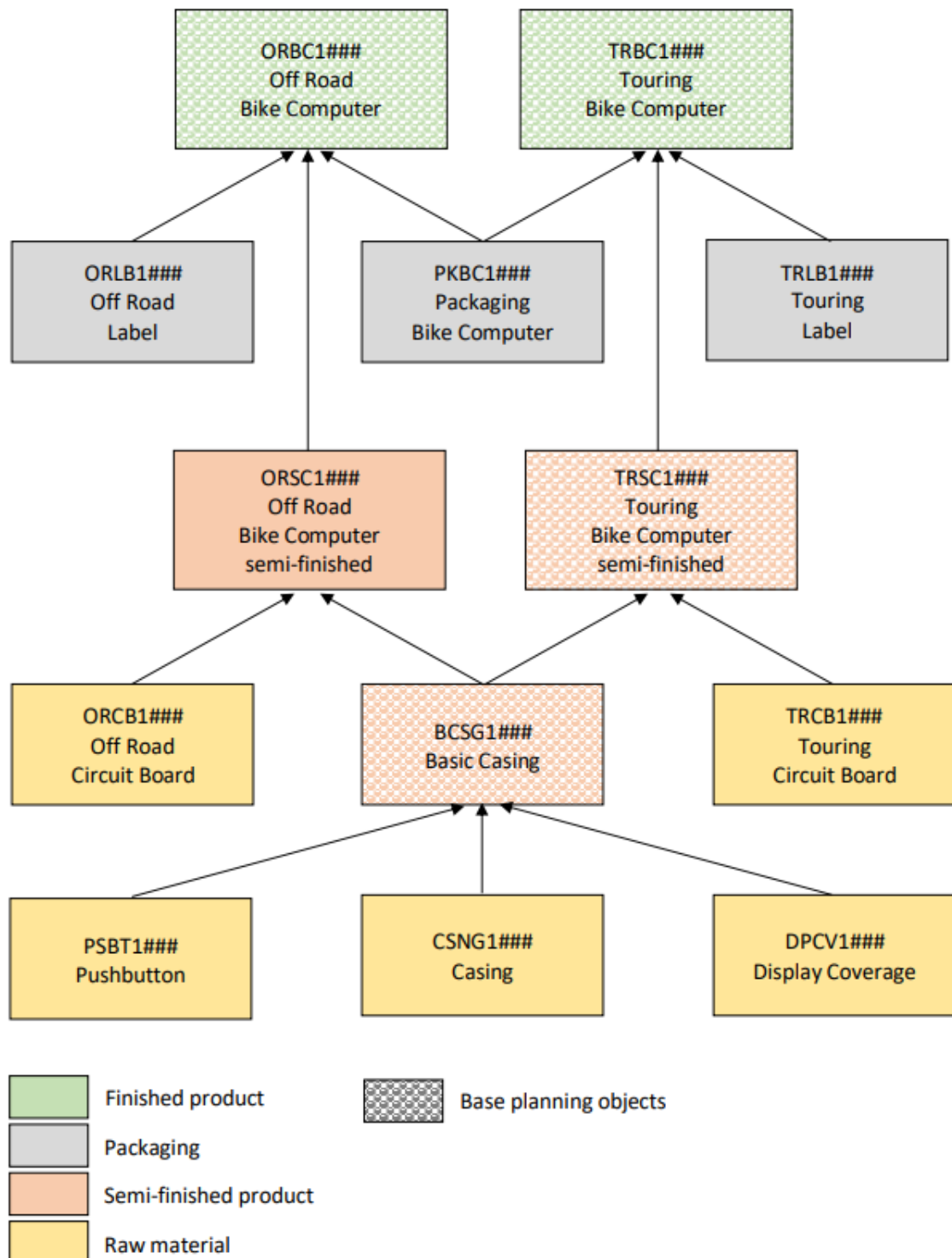
**Employees involved** Jermain Kumins (Production Floor Worker 1)  
Jamie Shamblin (Controller)  
Shuyuan Chen (Head of Accounting)

You start the multi-stage product cost calculation process with an already existing product, the mountain bike bicycle computer. Before you carry out the material costing, you use the sample costing to estimate the costs in advance. You then create further raw materials, a semi-finished product and a final product for another bicycle computer, add to the structure of the product with the help of bills of materials and can thus carry out a cost estimate with quantity structure for the final product, which you then update in the material master. Between the steps, you create sample cost estimates again to determine the costs of the new products before they are even created. The following graphic shows the complete process chain.



The multi-level product structure of the end products *Off Road Bike computer (ORBC1###)* and *Touring Bike computer (TRBC1###)* can be found in the following figure. Please note that the components of the touring bike computer are not created in the system in advance.

## Version Global Bike EN



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## [Optional] Manual calculation of manufacturing costs

**Task** Calculate the manufacturing costs for the mountain bike cycle computers and the touring cycle computers manually.

**Time** 60 Min.

**Short description** Calculate the manufacturing costs for 1000 Bike computers each. To calculate, use a spreadsheet such as Microsoft Excel. For the sake of simplicity, assume that the packaging units in the purchase department can be divided into any number of parts. The following Bills of Materials (BOMs) form the basis for the calculation.

**Name (position)** Shuyuan Chen (Accounting Manager)

### BOMs of the semi-finished product Basic Casing (Per piece)

Material	Quantity per Basic Casing	Packaging unit in purchase	Price per packaging unit
Pushbuttons	4 pcs.	carton à 500 pcs.	100,00 € per carton
Casing	1 pcs.	carton à 100 pcs.	580,00 € per carton
Display coverage	1 pcs.	carton à 100 pcs.	400,00 € per carton

### BOMs of the semi-finished product Off Road Bike Computer (Per piece)

Material	Quantity per Basic Casing	Packaging unit in purchase	Price per packaging unit
Semi-finished basic casing	1 pcs.	carton à 100 pcs.	
Off Road circuit board	1 pcs.	carton à 100 pcs.	2.000,00 € per carton

### BOMs of the semi-finished product Touring Bike Computer (Per piece)

Material	Quantity per Basic Casing	Packaging unit in purchase	Price per packaging unit
Semi-finished basic casing	1 pcs.	carton à 100 pcs.	
Off Road circuit board	1 pcs.	carton à 100 pcs.	2.500,00 € per carton

**BOMs of the product Off Road Bike computer (Per PU - 1000 pcs.)**

Material	Quantity	Packaging unit in purchasing / reference size	Price per packaging unit
Semi finished mountain bike bike comp.	1000 pcs		
Packaging bike comp.	1000 pcs.	Pallet à 1000 pcs.	150,00 € per pallet
Deluxe" sticker	1000 pcs.	carton à 1000 St.	50,00 € per carton
Machine hours	360 min.	1 hour	62,00 € per hour
Working hours	720 min.	1 hour	32,00 € per hour

**BOMs of the product Touring Bike Computer (Pro PU – 1000 pcs.)**

Material	Quantity	Packaging unit in purchasing / reference size	Price per packaging unit
Semi finished mountain bike bike comp.	1000 pcs.		
Packaging bike comp.	1000 pcs.	Palette à 1000 St.	150,00 € per pallet
Deluxe" sticker"	1000 pcs.	carton à 1000 St.	50,00 € pro carton
Machine hours	360 min	1 hour	62,00 € per hour
Arbeitszeit	720 Min.	1 Stunde	32,00 € pro Stunde

Result 1000 Off Road Bike computer: \_\_\_\_\_

Result 1000 Off Road Bike computer: \_\_\_\_\_



## Step 1: Create Variant Semi-finished Product

**Task** Carry out the sample costing for the semi-finished product Basic Casing.

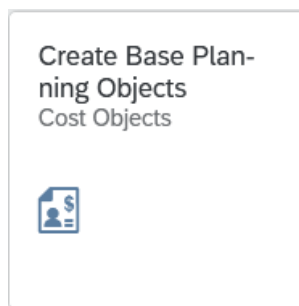
**Time** 15 Min.

**Short description** Carry out a sample calculation for the Basic Casing Bike Computer. You will calculate the manufacturing costs for the Basic Casing. The basic Casing is part of the existing Off Road Bike Computer and the new touring bike computer.

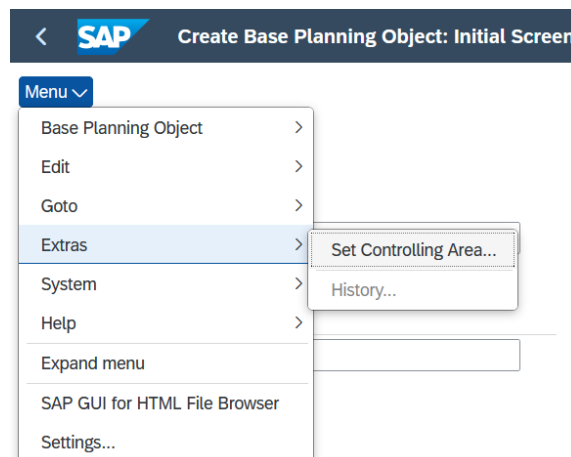
**Name (position)** Jamie Shamblin (Controller)


In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Controller* role, use the app *Create Base Planning Objects* to create a base planning object.

Create Base Planning Objects



*Create Base Planning Object: Initial screen* appears. At the beginning, select **Menu → Extras → Set Controlling Area...**



Change the controlling area from NA00 to **EU00** and confirm the change with  (Copy).

EU00

In the *Base Planning Object* field, enter **BCSG1###** (replace ### with your three-digit number) for the base case.

BCSG1###

\* Base Planning Object: BCSG1400

Copy from

Base Planning Object:

Press Enter. *The Create Base Planning Object: Master Data screen appears.* Enter **PC** (pieces) as the *Base Unit of Measure* and **5004000** (expenses for semi-finished products) as the *Cost Element*. Then select the *Company Code* **DE00** (Global Bike Germany GmbH) and the *Plant* **HD00** (Heidelberg). Use **PP-PC1** (PP-PC standard) as the *Costing Sheet*.

Enter **###** (your three-digit number) as the *Sort Field*. The latter allows you to display sorted calculations. Finally, enter **Basic Casing ###** as *Name* and **Basic Casing Bike Computer** as *Description*.

PC  
5004000  
DE00  
HD00  
PP-PC1

###  
Basic Casing ###  
Basic Casing Bike  
Computer

< **SAP** Create Base Planning Object: Master Data Search In: "A"

Menu ▾

Base Planning Object: BCSG1400 Controlling Area: EU00

**General Data**

\* Base Unit of Measure: PC Cost Element: 5004000

Company Code: DE00 Base Object Group:

Plant: HD00 Sort Field: 400

Profit Center:

Costing Sheet: PP-PC1 Overhead key:

**Texts**

\* Name: Basic Casing 400

Description: Basic Casing Bike Computer

**Cost estimate**

Total Value (LocCur): 0.00 EUR

Lot Size: 0 PC

Price: 0.00 EUR

**Status**

☐ Released

☐ Deletion Flag

Then click on (Create Cost Estimate) to create the calculation. The *Create Cost estimate* window appears. Enter the *Costing Variant* **PG** (Base Planning Object) and the *lot size* **1000**.

PG  
1000



Create Cost Estimate ✕Costing Variant: Lot Size:  

## Copy from

Base Object: ✓ ✕Click on ☒ (Continue) to proceed.

**Note** The item category identifies the costing items with regard to their origin or cost origin. Examples are M (material), B (base planning object), S (total), E (internal activity) or G (overhead). The Resource column indicates which information is read by the system, depending on the item category.

In the *Category* column, enter **M** for *Material* in the first three lines and **S** for *Total* in the fourth line. Then, in the *Resource* column, in the first three lines, enter **PSBT1###** for Pushbutton, **CSNG1###** for Casing and **DPCV1###** for Display Coverage.

M  
S  
PSBT1###  
CSNG1###  
DPCV1###


Then enter **HD00** in the first three lines in the *Plant/Performance* column.

HD00

In the *Quantity* column, enter **4000** in the Pushbutton line (*PSBT1###*) and **1000** each for the Casing (*CSNG1###*) and Display Coverage (*DPCV1###*).


4000  
1000

## Costing Items - Basic View

	Ma Item	Category	Resource	Plant/...	Pur...	Quantity
<input type="checkbox"/>	1	M	PSBT1400	HD00		4000
<input type="checkbox"/>	2	M	CSNG1400	HD00		1000
<input type="checkbox"/>	3	M	DPCV1400	HD00		1000
<input type="checkbox"/>	4	S				

Press Enter. The system automatically adds more information, also the prices for the materials are entered and the total sum of the basic housing is determined.

## Costing Items - Basic View

	Ma Item	Category	Resource	Plant/...	Pur...	Quantity	Unit of...	Lot Value - Total	Description
<input type="checkbox"/>	1	M	PSBT1400	HD00		4,000	PC	800.00	Pushbutton
<input type="checkbox"/>	2	M	CSNG1400	HD00		1,000	PC	5,800.00	Casing
<input type="checkbox"/>	3	M	DPCV1400	HD00		1,000	PC	4,000.00	Display Coverage
<input type="checkbox"/>	4	S						10,600.00	

The overhead rates are only added after saving and are not yet visible in the screen.

Click on **Save** to save your calculation.

**Optional** Compare the calculation with your manual invoice for the semi-finished basic housing.


You will be redirected to the master data view and receive the following message in the status bar.

✔ Cost estimate saved temporarily [View Details](#)

In the *Cost Estimate* area, both the total value of the specified batch size and the unit price were determined. Here, the total value differs from the previous sum because the overhead surcharges have now been taken into account.

#### Cost estimate


Total Value (LocCur):	12,720.00	EUR
Lot Size:	1,000	PC
Price:	12.72	EUR

Click on  (*Process Cost Estimate Further*) to display the cost estimate again. The system has automatically added a line for overhead to your cost estimate.

Select  to return to the Create Base Planning: Master Data screen.

Click on **Save** to save your calculation.

✔ Base planning object EU00 BCSG1400 was saved

Click on  to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with **Ok**.



## Step 2: Create Variant Semi-finished Product

**Task** Carry out the sample calculation for the semi-finished product of the Off Road Bike Computer.

**Time** 15 Min.

**Short Description** Carry out a sample calculation for the semi-finished product of the Off Road Bike Computer. Use it to determine the manufacturing costs for this semi-finished product.


**Name (position)** Jamie Shamblin (Controller)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Controller* role, use the *Create Base Planning Objects* app to create a base planning object.

Create Base Planning Objects

Create Base Planning Objects  
Cost Objects



Change the *Controlling area* from NA00 to **EU00** and confirm the change with  (Copy).

EU00

Enter **ORSC1###** (*Off Road Bike Computer semi-finished*) in the *Base Planning Object* field and enter the *Base Planning Object* **BCSG1###** you have just created as a template.

ORSC1###

BCSG1###

\* Base Planning Object: ORSC1400

Copy from

Base Planning Object: BCSG1400

Press Enter. The *Create Base Planning: Master Data* screen appears.

Change the *Name* to **Off Road Semi ###**. Enter **Off Road Bike Computer semi-finished** as the new *Description*.


Off Road Comp Semi  
###  
Off Road Bike Computer  
semi-finished

Texts

\* Name: Off Road Semi 400

Description: Off Road Bike Computer semi-finished



Then click on  (*Create Cost Estimate*) to create the calculation. The *Create Cost Estimate* window appears. Enter the *Costing Variant* **PG** (*Base Planning Object*) and the *Lot Size* **1000** can be taken over, but remove **BCSG1###** as a template.

PG  
1000  
BCSG1###

**Create Cost Estimate** X

---

Costing Variant:


Lot Size:

Copy from

Base Object:

---

✓ ✗

Click on  (*Continue: enter*) to proceed. Sie sehen nun den Bildschirm: *Create Unit Cost Estimate : List Screen – 1*.


In the *Category* column, enter **B** for *Base Planning Object* in the first row, **M** for *Material* in the second row and **S** for *Total* in the third row. Then enter the previously created base planning object **BCSG1###** in the first line of the *Resource* column and **ORCB1###** for the Off Road Circuit Board in the second line.

B  
M  
S  
BCSG1###  
ORCB1###

Then enter **HD00** in the second line in the column *Plant/Performance* and **1000** in the first and second line in the column *Quantity*.

HD00  
1000

Costing Items - Basic View

	Ma Item	Category	Resource	Plant/...	Pur...	Quantity	Un...
<input type="checkbox"/>	1	B	BCSG1400			1000	
<input type="checkbox"/>	2	M	ORCB1400	HD00		1000	
<input type="checkbox"/>	3	S					

Press Enter. The system automatically adds further information, and also enters the prices for the materials and calculates the total sum of the semi-finished products.

Costing Items - Basic View

	Ma Item	Category	Resource	Plant/...	Pur...	Quantity	Un...	Lot	Value - Total
<input type="checkbox"/>	1	B	BCSG1400			1,000	PC		12,720.00
<input type="checkbox"/>	2	M	ORCB1400	HD00		1,000	PC		20,000.00
<input type="checkbox"/>	3	S							32,720.00

Click on  to save your calculation.


**Optional** Compare the calculation with your manual invoice for the semi-finished product Off Road Bike Computer.

You will be redirected to the master data view and receive the following message in the status bar.

✔ Cost estimate saved temporarily [View Details](#)

In the *Cost estimate* area, both the total value of the specified batch size and the unit price were determined. Here, the total value differs from the previous sum because the overhead surcharges have now been taken into account.


Cost estimate		
Total Value (LocCur):	39,264.00	EUR
Lot Size:	1,000	PC
Price:	39.26	EUR

Click on  (*Process Cost Estimate Further*) to display the cost estimate again. The system has automatically added a line for overhead to your cost estimate.


Costing Items - Basic View

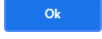
<input type="checkbox"/>	Ma Item	Category	Resource	Plant/...	Pur...	Quantity	Un...	Lot Value - Total	Description
<input type="checkbox"/>	1	B	BCSG1400			1,000	PC	12,720.00	Basic Casing Bike Computer
<input type="checkbox"/>	2	M	ORCB1400	HD00		1,000	PC	20,000.00	Off Road Circuit Board
<input type="checkbox"/>	3	S						32,720.00	
<input type="checkbox"/>	4	G						6,544.00	Material Overhead

Select  to return to the *Create Base Planning: Master Data* screen.

Click on  to save your calculation.

✔ Base planning object EU00 ORSC1400 was saved

Click on  to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with .



### Step 3: Create Variant Finished Product

**Task** Carry out the sample calculation for the Off Road Bike Computer.

**Time** 20 Min.

**Short Description** Determine the manufacturing costs for the finished product Off Road Bike computer.

**Name (position)** Jamie Shamblin (Controller)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Controller* role, use the *Create Base Planning Objects* app to create a base planning object.

Create Base Planning  
Objects

Create Base Plan-  
ning Objects  
Cost Objects



Change the *controlling* area from NA00 to **EU00** and confirm the change with ☒ (Copy).

EU00

The *Create Base Planning Object: Initial Screen* appears. Enter **ORBC1###** in the *Base Planning Object* field.

ORBC1###

\* Base Planning Object:

Copy from

Base Planning Object:




Press Enter. The *Create Base Planning Object: Master Data* screen appears. Enter **PC** (*pieces*) as the *Base Unit of Measure* and **5002000** (*expenses for finished products*) as the *Cost Element*. Enter the *Company Code* **DE00** and the *Plant* **HD00**. The *Costing Sheet* is **PP-PC1** (*PP-PC standard*).

PC  
5002000  
DE00  
HD00  
PP-PC1

As *Sort Field* enter **###** and as *Name* **Off Road Comp ###**. Finally, enter the *Description* **Off Road Bike Computer**.

###  
Off Road Comp ###  
Off Road Bike Computer

**SAP** Create Base Planning Object: Master Data Search In: %

Menu   

Base Planning Object:  Controlling Area:

**General Data**

\* Base Unit of Measure:  Cost Element:

Company Code:  Base Object Group:


Plant:  Sort Field:

Profit Center:

Costing Sheet:  Overhead key:

**Texts**

\* Name:

Description:  

**Cost estimate**

Total Value (LocCur):


Lot Size:

Price:

**Status**

☐ Released

☐ Deletion Flag

Click on  (Process Cost Estimate Further...) to create the calculation. The *Create Cost Estimate* window appears. Enter the *Costing Variant* **PG** (Base Planning Object) and the *Lot Size* **1000**.

PG  
1000

Create Cost Estimate ✕


Costing Variant:

Lot Size:

Copy from

Base Object:

✓ ✕

Click on  (Continue: enter) to proceed. Sie sehen nun den Bildschirm: *Create Unit Cost Estimate : List Screen – 1*.

In the *Category* column, enter **B** for *Base Planning Object* in the first row, **M** for *Material* in the second and third rows, and **S** for *Total* in the fourth and seventh rows. In the fifth and sixth line enter **E** for *Internal Activity*.

B  
M  
S  
E

In the *Resource* column, enter **ORSC1###** for the semi-finished product Off Road Bike Computer in the first row. In the next two lines, add **ORLB1###** for the Off Road label and **PKBC1###** for the Packaging Bike Computer. In

ORSC1###  
ORLB1###  
PKBC1###  
EUPR1000

the fifth and sixth lines, enter **EUPR1000**. *EUPR1000* stands for the cost center production cost that performs an activity.

In the *Plant/Activity* column, enter **HD00** in the second and third lines. In addition to the materials, the operations **MACH** (*machine hours*) and **WAGE** (*wage hours*) enter the cost estimate as activity types. Add these in the fifth and sixth row for the cost center *EUPR1000*.

HD00  
MACH  
WAGE


In the *Quantity* column, enter **1000** in the first three rows. In the fifth row enter **360** and in the sixth row enter **720**.

1000  
360  
720

Finally, in the *Unit of Measure* column, enter **MIN** (*minutes*) for machine hours time and wage hours.


MIN

#### Costing Items - Basic View

	Ma Item	Category	Resource	Plant/...	Pur...	Quantity	Un...
<input type="checkbox"/>	1	B	ORSC1400			1000	
<input type="checkbox"/>	2	M	ORLB1400	HD00		1000	
<input type="checkbox"/>	3	M	PKBC1400	HD00		1000	
<input type="checkbox"/>	4	S					
<input type="checkbox"/>	5	E	EUPR1000	MACH		360	MIN
<input type="checkbox"/>	6	E	EUPR1000	WAGE		720	MIN
<input type="checkbox"/>	7	S					

Press Enter. The system automatically adds more information, and also enters the prices for the materials and calculates the totals. On the one hand the total sum for the materials and then including the necessary services.

#### Costing Items - Basic View

	Ma Item	Category	Resource	Plant/...	Pur...	Quantity	Unit of Measure	Lot Value - Total	Description
<input type="checkbox"/>	1	B	ORSC1400			1,000	PC	39,264.00	Off Road Bike Computer semi-finished
<input type="checkbox"/>	2	M	ORLB1400	HD00		1,000	PC	50.00	Off Road Label
<input type="checkbox"/>	3	M	PKBC1400	HD00		1,000	PC	150.00	Packaging Bike Computer
<input type="checkbox"/>	4	S						39,464.00	
<input type="checkbox"/>	5	E	EUPR1000	MACH		360	MIN	372.00	Machine Hours
<input type="checkbox"/>	6	E	EUPR1000	WAGE		720	MIN	384.00	Wage Hours
<input type="checkbox"/>	7	S						40,220.00	

Click on  to save your calculation.

**Optional** Compare the calculation with your manual invoice for the product Off Road Bike Computer.

You will be redirected to the master data view and receive the following message in the status bar.

 Cost estimate saved temporarily [View Details](#)

In the *Cost estimate* area, both the total value of the specified lot size and the price per piece were calculated. Here, the total value deviates from the previous sum, as the overhead surcharges have now been taken into account.




## Cost estimate

Total Value (LocCur): 48,267.24 EUR

Lot Size: 1,000 PC


Price: 48.27 EUR

Click on  (*Process Cost estimate Further...*) to display the cost estimate again. The system has automatically added a line for the overhead to your cost estimate. In contrast to the previous calculations, the overhead of the production wages has now been taken into account.


## Costing Items - Basic View


Ma Item	Category	Resource	Plant/...	Pur...	Quantity	Unit of Measure	Lot Value - Total	Description
<input type="checkbox"/>	1	B	ORSC1400		1,000	PC	39,264.00	Off Road Bike Computer semi-finished
<input type="checkbox"/>	2	M	ORLB1400	HD00	1,000	PC	50.00	Off Road Label
<input type="checkbox"/>	3	M	PKBC1400	HD00	1,000	PC	150.00	Packaging Bike Computer
<input type="checkbox"/>	4	S					39,464.00	
<input type="checkbox"/>	5	E	EUPR1000	MACH	360	MIN	372.00	Machine Hours
<input type="checkbox"/>	6	E	EUPR1000	WAGE	720	MIN	384.00	Wage Hours
<input type="checkbox"/>	7	S					40,220.00	
<input type="checkbox"/>	8	G					7,892.80	Material Overhead
<input type="checkbox"/>	9	G					154.44	Prod. Wages Overhead

Select  to return to the *Create Base Planning Object: Master Data* screen.

Click on  to save your calculation.

 Base planning object EU00 ORBC1400 was saved

Click on  to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with .



## Step 4: Create cost estimate with quantity structure

**Task** Create a cost estimate with quantity structure for the Off Road Bike Computer.

**Time** 15 Min.

**Short Description** After the manufacturing costs for the bike computer have been determined in advance using the base planning object, you will now create a cost estimate with quantity structure. This is done using the material cost estimate.

**Name (position)** Shuyuan Chen (Accounting Manager)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Controller* role, use the *Create Material Cost Estimates* app to create a Material Cost Estimate.

Create Material Cost Estimates



The *Create Material Cost Estimate with Quantity Structure* screen appears. Enter **ORBC1###** (your finished product Off Road Bike Computer) in the *Material* field and **HD00** (Heidelberg) as the *Plant*. The *Costing Variant* is **ZPC1** (standard cost estimate Mat+OC), the *Costing Version* is **1** and you enter **1000** in the *Costing lot size* field.

ORBC1###  
HD00  
ZPC1  
1  
1000

Now select the *Dates* tab. This is not prefilled, click on [Default Values](#) to create dates.

The costing dates *from* and *to* indicate the period of validity of the cost estimate. The explosion date determines the point in time at which the then valid quantity structure is used.

Based on the valuation date, the valid price and date data are selected. Change the date in the *Costing Date From* field to the **current date**.

Current Date

Costing Data   **Dates**   Qty Struct.

\* Costing Date From: 08/15/2023

\* Costing Date To: 12/31/9999

\* Qty Structure Date: 09/01/2023

\* Valuation Date: 09/01/2023

Default Values

Now click on the *Quantity Structure (Qty Struct.)* tab and enter **1** in the *Usage* field. This indicates that the production BOM (Bills of Material) is to be used as the quantity structure for the cost estimate.

1

Costing Data   Dates   **Qty Struct.**

BOM Data   Routing Data

BOM:

Usage:

Alternative:

Production Version:

Task List Type:

Group:

Group Counter:

Press Enter. You will now see the calculation overview.

**SAP** Create Material Cost Estimate with Quantity Structure

Menu > Costing Structure Off > Detail List Off

\* Material: ORBCL400 Off Road Bike Computer

\* Plant: HD00

Costing Data   Dates   Qty Struct.   Valuation   History   **Costs**

\* Costs Based On: 1 Costing Lot Size 1,000 PC

Cost Component View			
	Total Costs	Fixed Costs	Variable Costs
Cost of Goods Manufactured	56,834.16	0.00	56,834.16 EUR
Cost of Goods Sold	111,461.39	0.00	111,461.39 EUR
Sales and Administration Costs	54,647.23	0.00	54,647.23 EUR
Inventory (Commercial)	0.00	0.00	0.00 EUR
Inventory (Tax-Based)	0.00	0.00	0.00 EUR

1 Cost of Goods Manufactured

Itemization in Company Code Currency

Item No.	Resource	Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
1	M HD00 ORBCL400	5004000	47,116.80	0.00	EUR	1,000	PC
2	M HD00 ORLB1400	5002000	50.00	0.00	EUR	1,000	PC
3	M HD00 PKBC1400	5002000	150.00	0.00	EUR	1,000	PC
4	G EUPR1000 8015000	8015000	9,463.36	0.00	EUR		
5	G EUPR1000 8012000	8012000	54.00	0.00	EUR		
6	G EUAD1000 8013000	8013000	0.00	0.00	EUR		
7	G EUSA1000 8014000	8014000	0.00	0.00	EUR		
			56,834.16	0.00	EUR		

Scroll down and click on  (*Cost Comps*) in about the middle of the screen to display the individual Cost Components.

1 Cost of Goods Manufactured						
Cost Components in Company Code Currency						
CC...	Name of Cost Comp.	Overall	Fixed	Variable	Currency	
1	Raw Materials	30,800.00		30,800.00	EUR	
2	Human Resources				EUR	
3	Production				EUR	
4	Material Overhead	25,980.16		25,980.16	EUR	
5	Production Overhead	54.00		54.00	EUR	
8	External Activity				EUR	
9	Miscellaneous				EUR	
		56,834.16		56,834.16	EUR	



















This overview is similar to the previously created sample cost estimate, the costs can be fundamentally compared with each other.


In the dropdown in the middle of the screen, now change from *Cost of goods manufactured* to *Cost of goods sold*. Additional overhead surcharges are displayed, which are to be assigned to administration and sales. These make up the difference between cost of goods manufactured and cost of goods sold.

2 Cost of Goods Sold						
Cost Components in Company Code Currency						
CC...	Name of Cost Comp.	Overall	Fixed	Variable	Currency	
1	Raw Materials	30,800.00		30,800.00	EUR	
2	Human Resources				EUR	
3	Production				EUR	
4	Material Overhead	25,980.16		25,980.16	EUR	
5	Production Overhead	54.00		54.00	EUR	
6	Admin. Overhead	23,420.24		23,420.24	EUR	
7	Sales Overhead	31,226.99		31,226.99	EUR	
8	External Activity				EUR	
9	Miscellaneous				EUR	
		111,481.39		111,481.39	EUR	

**Optional** What is the difference between cost of goods sold and cost of goods sold? Research these two cost accounting terms.


On the left side of the screen you can see the structure of the finished product. View the individual components of the product, adjust the size of the area for this purpose if necessary.


Costing Structure	Err...	Total value	Currency
▼  Off Road Bike Computer		111,481.39	EUR
▼  Off Road Bike Computer semi-finished		81,802.08	EUR
▼  Basic Casing		25,058.40	EUR
 Pushbutton		1,296.00	EUR
 Casing		9,396.00	EUR
 Display Coverage		6,480.00	EUR
 Off Road Circuit Board		32,400.00	EUR
 Off Road Label		50.00	EUR
 Packaging Bike Computer		150.00	EUR

Click on  to save your material costing.

The SAP system saves the cost estimate for material *ORBCI###* and issues a corresponding message.

 The cost estimate is being saved

Click on  to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with .



## Step 5: Mark price update

**Task** Memorize the price update.

**Time** 10 Min.

**Short Description** The idea of the price update is the following: While the cost of goods manufactured per Off Road Bike Computer computer has already been calculated in the material cost estimate, no unit prices have yet been entered in the material master for the Bike Computer. With the help of the price update, the unit costs are transferred to the material master as the standard price. The costs are then available as standard cost of goods manufactured and do not have to be recalculated when selling.

**Name (position)** Shuyuan Chen ( Head of Accounting)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Head of Accounting* role, use the *Release Material Cost Estimates* to mark the price update.

Release Material Cost  
Estimates



The *Price Update: Mark Standard Price* screen appears. Enter **the current month** and the **current year** as the posting period.

current Month  
current Year

Enter **DE00** (Germany) as the *Company Code*, **HD00** as the *Plant* and the *Material* **ORBC1####**. In addition, remove the check mark from **Test run**.

DE00  
HD00  
ORBC1####  
~~Test run~~

Price Update: Mark Standard Price

Search In: "Apps"

Menu Release Other Prices

Posting Period/Fiscal Year: 8 2023 Marking Allowance

Company Code: DE00 to:

Plant: HD00 to:

Material: ORBC1400 to:

Valuation View

Legal Valuation: ☒

Processing Options

Test Run: ☐

With List Output: ☒

☐ Parallel Processing

Background Processing: ☐

Perform the marking with a click on . The system will then give you a log.

Except...	Ty	Material	Plant	AppAr	Msg.no.	Message Text
	I			CK	790	***** Summary : *****
	I			CK	705	Of 1 materials, 1 cost estimates were updated successfully

The material has now been transferred to the material master as a planned price. The next step is to release it as the current price in the material master.

Click on to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with .

## Step 6: Release price update

**Task** Perform a price release for the Off Road Bike Computer.

**Time** 5 Min.

**Short Description** Release the preregistered price update for the material master. If the period has changed in the meantime, the marking must be performed again. The reason for this is that the marking is done with reference to the posting period and therefore cannot be used for release outside this period.

**Name (position)** Shuyuan Chen (Head of Accounting)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Head of Accounting* role, use the *Release Material Cost Estimates* app to release the price update.

Release Material Cost  
Estimates



Click on **Release** to switch from marking to releasing material cost estimates. Again, make sure that the **current month** is selected as the *Posting Period* and the **current year**.

current month  
current year

Enter **DE00** (Germany) as the *Company Code*, **HD00** as the *Plant* and the *Material* **ORBC1###**. In addition, remove the check mark from **Test run**.

DE00  
HD00  
ORBC1###  
Test-run

Posting Period/Fiscal Year: 8 2023

Company Code: DE00

to:



Plant: HD00

to:



Material: ORBC1400

to:



No. of Materials in Document: 128

Processing Options

Test Run: ☐

With List Output: ☒



Then perform the release by clicking on **Execute**. The system then displays the list output.

<

SAP

Price Update

Search In: "Apps"

Menu

Change Layout

Select Layout

Save Layout

Long Text

Error Management

Print Preview

Log created on 08/15/2023

Information 3

Warnings

Error

Total 3

Except...	Ty	Material	Plant	AppAr	Msg.no.	Message Text
	I			CKPR...	019	Price change document 3000000594 posted
	I			CK	790	***** Summary : *****
	I			CK	705	Of 1 materials, 1 cost estimates were updated successfully

Click on to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with **Ok**.





Step 7: Check price update

**Task** Perform a price release check.

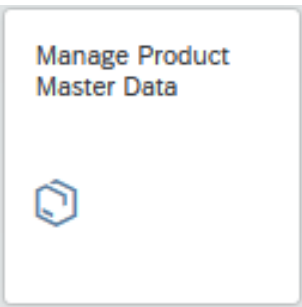
**Time** 5 min


**Short Description** Check if the price update was successful. You do this directly in the product master data.

**Name (position)** Jermain Kumins (Production Floor Worker 1)


In the *Controlling* area, on the *Multilevel Product Cost Controlling* page, in the *Shop Floor Worker* role, use the *Manage Product Master Data* app to check the current price.

Manage Product Master Data



In the search mask, enter **ORBC1###** in the *Product* field and click on . The system will display your Off Road Bike Computer.

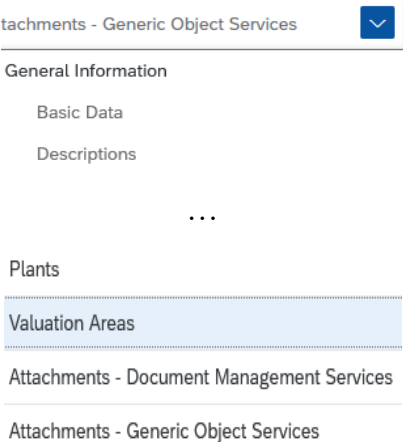
ORBC1###

Products (1)					
Image	Description / ID	Group / Type	GTIN	Product Category	Last Changed
	Off Road Bike Computer ORBC1400	Utilities (UTIL) Finished Product (FERT)		Product	08/15/2023, 09:37:35 <a href="#">Learn-400</a> <a href="#">Learn-400</a>

Click on the entry to open the details of the product.



On the right edge of the screen, use the pull-down menu to select the *Valuation Areas* section.

Valuation Areas



The screen automatically scrolls to the appropriate section.

## Valuation Areas


Valuation Areas						
<input type="text" value="Search"/>  						
Valuation Area	Valuation Type	Price Control Determination	Valuation Category	Valuation Class	Split Indicator	Marked for Deletion
DL00		Transaction-Based (2)		Finished products (7920)	Not Applicable	No >
HD00		Transaction-Based (2)		Finished products (7920)	Not Applicable	No >

Click on the line with the Valuation Area *HD00* to view more details of the material.

Select the *Valuation tab* ► *Current period*. Here you can see the price of the posted material cost estimate as the currently valid standard price.

Current Period							
Currency Type...	Ledger	Currency	Inventory Price		Standard Price		Price Unit
10	Leading Ledger (OL)	EUR	56.83	EUR	56.83	EUR	1
Standard price (S)							

As a result of your price update, the calculated price for the Off Road Bike Computer was updated as the standard price in the material master.

Click on  to return to the SAP Fiori Launchpad.



## Step 8: Create raw material

**Task** Create the touring board as a new raw material.

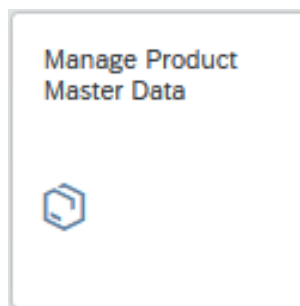
**Time** 10 Min.

**Description** After you have already worked with the existing Off Road Bike Computer, you will now create another model of the bicycle computer. In advance, the expected costs are determined via sample calculations. As a first step, another circuit board is now created, using the Off Road Circuit Board as a template.

**Name (position)** Jermain Kumins (Production Floor Worker 1)

In the *Controlling* area on the *Multi-level Product Cost Controlling* page, in the *Shop Floor Worker* role, use the *Manage Product Master Data* app to create a new raw material.

Manage Product Master Data



In the search mask, enter **ORCB1###** in the Product field and click on **Go**. The system will display your Off Road Circuit Board.

ORCB1###

Products (1)					
Image	Description / ID	Group / Type	GTIN	Product Category	Last Changed
	Off Road Circuit Board ORCB1400	Raw Materials (RAW) Raw materials (ROH)		Product	04/05/2022, 14:37:55 Marcel Himburg

Select the entry and click on **Copy**. A window opens in which the organizational data to be copied must be selected.

Select Organizational Data to Copy

Off Road Circuit Board  
ORCB1400

☒ Plants  
2 items selected

Accept the default setting and click on **OK**.

In the next window create the basic data of the new master record. Enter **TRCB1###** as the *Product Number* and change the *Description* to **Touring Circuit Board**. All other data can be taken over.

TRCB1###  
Touring Circuit Board

## Create Master Data Record

Product Number: TRCB1400	Base Unit: * Piece (PC)	Change Number:
Product Type: * Raw materials (ROH)	GTIN:	Revision Level: <a href="#">Create Revision Level</a>
Product Category: Product	GTIN Category:	
Product Group: Raw Materials (RAW)		
Description: * Touring Circuit Board		

[OK](#) [Cancel](#)

Click on [OK](#) to proceed.

The system now shows you the new data set for your touring board. Scroll to the *Descriptions* in the *General Information* section. Adjust the German name of the product here and enter **Touring Platine**.

Touring Platine

Descriptions	
Descriptions (2)	
Language	Product
<input checked="" type="radio"/> DE	Touring Platine
<input type="radio"/> English (EN)	Touring Circuit Board

Use the pull-down menu to select the *Valuation Areas* section.

Valuation Areas

Attachments - Generic Object Services [▼](#)

General Information

Basic Data

Descriptions

...

Plants

**Valuation Areas**

Attachments - Document Management Services

Attachments - Generic Object Services

The screen automatically scrolls to the appropriate section.

Valuation Areas						
Valuation Areas (2)						
Valuation Ar...	Valuation Type	Price Control Determination	Valuation Category	Valuation Class	Split Indicator	Marked for ...
<input type="radio"/> DL00		Transaction-Based (2)		3000	Not Applicable	No
<input type="radio"/> HD00		Transaction-Based (2)		3000	Not Applicable	No

Click on the line with the valuation area *HD00* to view more details of the material in this company code.

Select the *Valuation* tab ► *Current period*.

Change the *inventory price* to **2500 EUR**. The *Price Unit 100* and **Standard price (S)** as *Price Control* remain.

2500 EUR


Current Period						
Currency Type...	Ledger	Currency	Inventory Price	Standard Price	Price Unit	Price Control
10	Leading Ledger (0L)	EUR	2,500.00 EUR		100	Standard price (S)

Click on **Apply** to apply the adjustments. You will automatically return to the previous view.

Now click on **Create** to save the new product master record.

The system may indicate that a duplicate can be created. This is quite correct, because the master data are very similar.

< Create

 Potential duplicate(s) exists. Read long text before proceeding.

Click again on **Create** to continue. You will receive a confirmation from the system.

Master data record saved.

Click on **SAP** to return to the SAP Fiori Launchpad.

## Step 9: Create Variant Semi-finished product

**Task** Perform the sample calculation for the semi-finished product Off Road Bike Computer.

**Time** 15 Min.

**Short Description** Create a base object cost estimate for the semi-finished product of the Touring Bike Computer. You will use it to calculate the manufacturing costs for the semi-finished product even before the corresponding master data record has been created.

**Name (position)** Jamie Shamblin (Controller)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Controller* role, use the app *Create Base Planning Objects* to create a base planning object.

Create Base Planning Objects

Create Base Planning Objects  
Cost Objects



If you are asked for the *Controlling* area, enter **EU00** (Global Bike Europe) and confirm the entry with ☒ (Continue:enter).

EU00

Enter **TRSC1###** (*Touring Bike Computer semi-finished*) in the first *Base Planning Object* field and enter **ORSC1###** as a *template (Copy from)* in the second *Base Planning Object* field.

TRSC1###

ORSC1###

\* Base Planning Object: TRSC1400

Copy from

Base Planning Object: ORSC1400

Press Enter. The *Create Base Planning Object: Master Data* screen appears.


Change the *Name* to **Tour Comp Semi ###**. Enter **Touring Bike Computer semi-finished** as the new *description*.

Tour Comp Semi ###  
Touring Bike Computer  
semi-finished

Texts

\* Name: Tour Comp Semi 400

Description: Touring Bike Computer semi-finished

Then click on  (*Create Cost Estimate*) to create the calculation. The *Create Cost Estimate* window appears. The *Costing Variant* **PG** and the *Lot Size* **1000** can be used, as well as the template **ORSC1###** can be adopted

Create Cost Estimate ✕


Costing Variant:

Lot Size:

Copy from

Base Object:


✓ ✕

Click on  (*Continue:enter*) to continue. You will now see the screen: *Create unit Cost Estimate: List screen - 1*.

In the second line, change the resource and replace the Off Road Circuit Board **ORCB1###** with the new Touring Circuit Board **TRCB1###**. Press Enter to apply the adjustment.


Costing Items - Basic View

	Ma Item	Ca	Resource	Plant/...	Pur...	Quantity	Un...	Lot Value - Total	Description
<input type="checkbox"/>		1	B	BCSG1400		1,000	PC	12,720.00	Basic Casing Bike Computer
<input type="checkbox"/>		2	M	TRCB1400	HD00	1,000	PC	25,000.00	Touring Circuit Board
<input type="checkbox"/>		3	<span style="border: 1px solid red; padding: 0 2px;">S</span>					37,720.00	
<input type="checkbox"/>		4	G					6,544.00	Material Overhead

Click on  to save your calculation.

**Optional** Compare the calculation with your manual invoice for the product Touring bike computer semi-finished.

You will be redirected to the master data view and receive the following message in the status bar.

 **Cost estimate saved temporarily**

In the *Cost estimate* area, both the total value of the specified lot size and the unit price were calculated.


#### Cost estimate

Total Value (LocCur):


Lot Size:


Price:




Click on  (*Process Cost Estimate Further...*) to display the cost estimate again. The system has automatically added a line for overhead to your cost estimate.


Costing Items - Basic View


	Ma Item	Ca	Resource	Plant/...	Pur...	Quantity	Un...	Lot Value - Total	Description
<input type="checkbox"/>	1	B	BCSG1400			1,000	PC	12,720.00	Basic Casing Bike Computer
<input type="checkbox"/>	2	M	TRCB1400	HD00		1,000	PC	25,000.00	Touring Circuit Board
<input type="checkbox"/>	3	S						37,720.00	
<input type="checkbox"/>	4	G						7,544.00	Material Overhead

Select  to return to the *Create Base Planning Object: Master Data* screen.

Click on  to save your sample calculation.

 Base planning object EU00 TRSC1400 was saved

Click on  to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with .



## Step 10: Create semi-finished product

**Task** Create the material above.

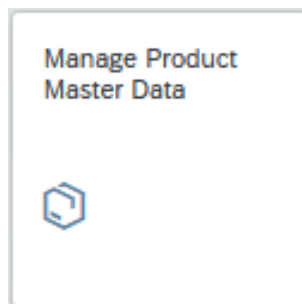
**Time** 15 Min.

**Short Description** Now that you have created the Circuit Board for the new Touring Bike computer, here is the associated semi-finished product.

**Name (position)** Jermain Kumins (Production Worker 1)

In the *Controlling* area, on the *Multilevel Product Cost Controlling* page, in the *Shop Floor Worker* role, use the *Manage Product Master Data* app.

Manage Product Master Data



In the search mask, enter **ORSC1###** in the *Product* field and click on **Go**. The system will display your Off Road Bike Computer semi-finished.

ORSC1###

Products (1)					Create	Copy	Mass Processing	Show in Hierarchy	Delete			
Image	Description / ID	Group / Type	GTIN	Product Category								
	Off Road Bike Computer semi-finished ORSC1400	Utilities (UTIL) Semifinished Product (HALB)		Product								

Select the entry and click on **Copy**. A window opens in which the organizational data to be copied are to be selected.

Select Organizational Data to Copy

Off Road Bike Computer semi-finished  
ORSC1400

☒ Plants  
2 items selected

Accept the default setting and click on **OK**.

In the next window, create the basic data of the new master record. Enter **TRSC1###** as the *Product Number* and change the *Description* to **Touring Bike Computer semi-finished**. All other data can be taken over.

TRSC1###  
Touring Bike Computer  
semi-finished

Create Master Data Record

Product Number: TRSC1400	Base Unit: * Piece (PC)	Change Number:
Product Type: * Semifinished Product (HALB)	GTIN:	Revision Level: <a href="#">Create Revision Level</a>
Product Category: Product	GTIN Category:	
Product Group: Utilities (UTIL)		

Description: \*  
Touring Bike Computer semi-finished

Click on to **OK** continue.

The system now shows you the new data set for your Touring Bike Computer semi-finished. Scroll to the *Descriptions* in the *General Information* section. Adjust the german name of the product here and enter **Touring Fahrradcomputer halbfertig**.

Descriptions

Descriptions (2)

Language	Product
<input type="radio"/> DE	Touring Fahrradcomputer halbfertigertig
<input type="radio"/> English (EN)	Touring Bike Computer semi-finished

Click on **Create** to save the new product master record.

The system may indicate that a duplicate can be created. This is quite correct, because the master data are very similar.

Click again on **Create** to continue. You will receive a confirmation from the system.

Master data record created

Click on **SAP** to return to the SAP Fiori Launchpad.

Touring  
Fahrradcomputer  
halbfertig

## Step 11: Extend product master data record for costing

**Task** Extend the master data record of your new semi-finished product.

**Time** 5 Min.

**Short Description** To enable costing with quantity structure, the previously created master data record still needs to be extended.

**Name (position)** Jermain Kumins (Production Worker 1)

In the *Controlling* area, on the *Multilevel Product Cost Controlling* page, in the *Shop Floor Worker* role, use the *Change Material* app.

Change Material

Change Material



Enter **TRSC1###** in the *Material* field and click on **Continue**. The *Select View(s)* window opens. Select the view *Costing 1*.

TRSC1###


Costing 1

Select View(s)



View	
<input type="checkbox"/> Basic Data 1	
<input type="checkbox"/> Basic Data 2	
<input type="checkbox"/> Extended SPP Basic Data	
<input type="checkbox"/> MRP 1	
<input type="checkbox"/> MRP 2	
<input type="checkbox"/> MRP 3	
<input type="checkbox"/> MRP 4	
<input type="checkbox"/> Advanced Planning	
<input type="checkbox"/> Extended SPP	
<input type="checkbox"/> Work Scheduling	
<input type="checkbox"/> General Plant Data / Storage 1	
<input type="checkbox"/> General Plant Data / Storage 2	
<input type="checkbox"/> Accounting 1	
<input type="checkbox"/> Accounting 2	
<input checked="" type="checkbox"/> Costing 1	
<input type="checkbox"/> Costing 2	

Confirm the selection by clicking on  (*Continue (enter)*).

In the following window, specify *Organizational Levels* for Plant **HD00** and confirm again with  (*Continue (enter)*).

HD00

Select the **With Qty Structure** and **Material origin** checkboxes.

With Qty Structure  
Material origin

General Data

\* Base Unit of Measure:  Piece

Do Not Cost: ☐

With Qty Structure: ☒


Material origin: ☒


Origin Group:


Overhead Group:  Variance Key:


Plant-Specific Mater:

Valid From:  Profit Center:

Click on  to apply the changes. You will receive a confirmation from the system.

 Material TRSC1400 changed

Click on  to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with .



## Step 12: Create BOMs (Bill of Materials)

**Task** Create a BOM for the product *Touring bike computer* semi-finished.

**Time** 15 Min..

**Short Description** Create a BOM for the semi-finished product created previously. Here you use on the one hand the new Touring circuit board and on the other hand the already existing Basic Casing for Bike computers.

**Name (position)** Jermain Kumins (Production Worker 1)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Shop Floor Worker* role, use the *Maintain Bill of Material* to create a BOM

Maintain Bill of Material



Click on **Create BOM** to create a new BOM . The *Create BOM* window opens.

In the *Material* field, enter the semifinished product you just created, **TRSC1###**. Furthermore, enter **HD00** as the *Plant* and select **1** (Production) for the *BOM Usage*.

TRSC1###  
HD00  
1 (Production)

### Create BOM

Material: *	TRSC1400	
Plant:	HD00	
BOM Usage: *	1 (Production)	
Alternative BOM:		
Change Number:		
Valid From:	08/23/2023	
Change Record:		

Click on **OK** to accept your input.



The *Maintain Bill of Materials* screen appears. In the list, for the first two items, enter **BCSG1###** (Basic Casing) and **TRCB1###** in the *Component* column.

BCSG1###  
TRCB1###

In the Component Quantity column, add **1** in each case.




TRSC1400


Touring Bike Computer semi-finished, Plant:Plant Heidelberg, BOM Usage:Production, Alternative:01

Selected Date: 08/23/2023  Select Change Number:   [View Change Records](#)


Components   Header Attributes   Header Attachments   Header Long Text

Standard ▾

<input type="checkbox"/>	Item Nu...	Item Category	Component	Preliminary Component	Component Quantity	
<input type="checkbox"/>	0010	Stock item (L) ▾	BCSG1400 		1.000	PC 
<input type="checkbox"/>	0020	Stock item (L) ▾	TRCB1400 		1.000	PC 

Click on  to save the new BOM. You will receive a confirmation from the system.

Material BOM saved

Click on  to return to the SAP Fiori Launchpad.



## Step 13: Change BOMs (Bill of Materials)

**Task** Change a BOM for the product *Touring bike computer* semi-finished.

**Time** 15 Min..

**Name (position)** Jermain Kumins (Production Worker 1)


In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Shop Floor Worker* role, use the *Maintain Bill of Material* to change a BOM




Change Bill of Material

Change Bill of Material

In the *Material* field, enter the semifinished product you just created, **TRSC1###**. Furthermore, enter **HD00** as the *Plant* and select **1** (Production) for the *BOM Usage*.

TRSC1###  
HD00  
1 (Production)

 **Change material BOM: Initial Screen**

Menu ▾   Item 

\* Material:

Plant:

\* BOM Usage:

Alternative BOM:

Validity

Change Number:

Valid From:

Revision Level:

Click on  Item.

Double-click on the *0010 position* to open the details.

Please switch to the *Status/Long text* tab and select **X (100% Relevant to Costing)** for CostingRelevncy in this area.

X



Basic Data   Status/Long Text   Administration   Document Assignment

**BOM Item**

Item Number: 0010


Component: BCSG1400

Basic Casing

Item Category: L Stock item


Item ID: 00000001

**Item Text**


Line 1:  


Line 2:


Item Status	Additional Data
Engineering/design: <input type="checkbox"/>	Mat. Provision Ind. <input type="checkbox"/>
Production relevant: <input checked="" type="checkbox"/>	Bulk material: <input type="checkbox"/>
Plant maintenance: <input type="checkbox"/>	Bulk Mat.Ind.Mat.Mst: <input type="checkbox"/>
Spare Part Indicator <input type="checkbox"/>	Storage Location <input type="text"/>
Relevant to sales <input type="checkbox"/>	Prodn Supply Area <input type="text"/>
CostingRelevncy <input checked="" type="checkbox"/>	


Select  to return to the Change Material BOM: General Item Overview screen.

Please perform the same procedure for *position 0020*.

Click on  to change your Bill of Material.

 BOM for material TRSC1400 changed

Click on  to return to the SAP Fiori Launchpad.



## Step 14: Create packaging

**Task** Create the above material.

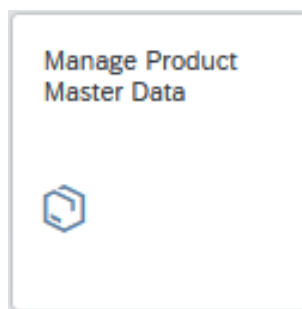
**Time** 10 Min.

**Short Description** A sticker is placed on the packaging to make the product *Touring Bike Computer* recognizable as such. The sticker in question is supplied by a printing company. You will also need a separate material master record for the new sticker.

**Name (position)** Jermain Kumins (Production Worker 1)

In the *Controlling* area, on the *Multilevel Product Cost Controlling* page, in the *Shop Floor Worker* role, use the *Manage Product Master Data* app.

Manage Product Master Data



In the search mask, enter **ORLB1###** in the *Product* field and click on **Go**. The system will display your Off Road Label.

ORLB1###

Products (1)					Create	Copy	Mass Processing	Show in Hierarchy	Delete				
Image	Description / ID	Group / Type	GTIN	Product Category									
	Off Road Label ORLB1400	Utilities (UTIL) Packaging (VERP)		Product									

Select the entry and click on **Copy**. A window opens in which the Organizational Data to be copied must be selected.

Select Organizational Data to Copy

Off Road Label  
ORLB1400

☒ Plants  
2 items selected

Accept the default setting and click on **OK**.

In the next window create the basic data of the new master record. Enter **TRLB1###** as the *Product Number* and change the *Description* to **Touring Label**. All other data can be taken over.

TRLB1###

Touring Label

Create Master Data Record

Product Number: TRLB1400	Base Unit: * Piece (PC)	Change Number:
Product Type: * Packaging (VERP)	GTIN:	Revision Level: <a href="#">Create Revision Level</a>
Product Category: Product	GTIN Category:	
Product Group: Utilities (UTIL)		

Description: \*  
Touring Label

Click on **OK** to continue.

The system will now show you the new record for your touring label. Scroll to the *Descriptions* in the *General Information* section. Adjust the German name of the product here and enter **Touring Etikett**.

Touring Etikett

Descriptions	
Descriptions (2)	
Language	Product
<input type="radio"/> DE	Touring Etikett
<input type="radio"/> English (EN)	Touring Label

Click on **Create** to save the new product master record.

Master data record created

Click on **SAP** to return to the SAP Fiori Launchpad.

## Step 15: Sample costing finished product

**Task** Perform the sample costing for the Touring bike computer.

**Time** 20 Min.

**Short Description** Create a base planning object for the new finished product Touring bicycle computer. The sample costing can be done before the actual material master of the product is created and thus provide information about the potential manufacturing costs in advance.


**Name (position)** Jamie Shamblin (Controller)

Again, in the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Controller* role, use the *Create Base Planning Objects* app.

Create Base Planning  
Objects

Create Base Plan-  
ning Objects  
Cost Objects



If you are asked for the *controlling* area, enter **EU00** (Global Bike Europe) and confirm the entry with  (*Continue:enter*).

EU00

The *Create Base Planning Object: Initial Screen* appears. Enter **TRBC1###** in the *Base Planning Object* field and **ORBC1###** as the template (*Copy from*).

TRBC1###  
ORBC1###

\* Base Planning Object: TRBC1400

Copy from

Base Planning Object: ORBC1400


Change the *Name* to **Tour Comp ###**. Enter **Touring Bike Computer** as the new *Description*.

Tour Comp ###  
Touring Bike Computer

Texts

\* Name: Tour Comp 400

Description: Touring Bike Computer

Then click on  (*Create Cost Estimate*) to create the calculation. The *Create Cost Estimate* window appears. Enter the *Costing Variant* **PG** (Base Planning Object) and the *Lot Size* **1000**.

Create Cost Estimate ✕


Costing Variant:

Lot Size:

Copy from

Base Object:

✓ ✕

Click on  (*Continue:enter*) to continue. You will now see the screen: *Create unit Cost Estimate: List screen - 1*.

In the first and second line, change the resource and replace the *Off Road Bike Computer semi-finished* **ORSC1###** with the new *Touring Bike Computer semi-finished* **TRSC1###**, and the *Off Road Label* **ORLB1###** with the *Touring Label* **TRLB1###**. Press Enter to apply the adjustment.

ORSC1###  
TRSC1###

ORLB1###  
TRLB1###


Costing Items - Basic View

Ma Item	Ca Resource	Plant/...	Pur...	Quantity	Un...	Lot Value - Total	Description
<input type="checkbox"/> 1	B TRSC1400			1,000	PC	45,264.00	Touring Bike Computer semi-finished
<input type="checkbox"/> 2	M TRLB1400	HD00		1,000	PC	50.00	Touring Label
<input type="checkbox"/> 3	M PKBC1400	HD00		1,000	PC	150.00	Packaging Bike Computer
<input type="checkbox"/> 4	<span style="border: 1px solid red;">S</span>					45,464.00	
<input type="checkbox"/> 5	E EUPR1000	MACH		360	MIN	372.00	Machine Hours
<input type="checkbox"/> 6	E EUPR1000	WAGE		720	MIN	384.00	Wage Hours
<input type="checkbox"/> 7	<span style="border: 1px solid red;">S</span>					46,220.00	
<input type="checkbox"/> 8	G					7,892.80	Material Overhead
<input type="checkbox"/> 9	G					154.44	Prod. Wages Overhead

Click on  to save your calculation.

Optionally compare the calculation with your manual invoice for the product Touring bike computer.


You will be redirected to the master data view and receive the following message in the status bar.

 Cost estimate saved temporarily [View Details](#)

In the *Cost estimate* area, both the total value of the specified lot size and the unit price were calculated. Here, the total value deviates from the previous sum, since the overhead surcharges have now been taken into account.


## Cost estimate


Total Value (LocCur):	55,467.24	EUR
Lot Size:	1,000	PC
Price:	55.47	EUR

Click on  (*Process Cost Estimate Further*) to display the cost estimate again. The system has automatically added a line for the overhead to your cost estimate. In contrast to the previous calculations, the overhead of the production wages has now been taken into account.


## Costing Items - Basic View


<input type="checkbox"/>	Ma Item	Ca Resource	Plant/...	Pur...	Quantity	Un...	Lot Value - Total	Description
<input type="checkbox"/>	1	B TRSC1400			1,000	PC	45,264.00	Touring Bike Computer semi-finished
<input type="checkbox"/>	2	M TRLB1400	HD00		1,000	PC	50.00	Touring Label
<input type="checkbox"/>	3	M PKBC1400	HD00		1,000	PC	150.00	Packaging Bike Computer
<input type="checkbox"/>	4	<span style="border: 1px solid red; padding: 0 2px;">S</span>					45,464.00	
<input type="checkbox"/>	5	E EUPR1000	MACH		360	MIN	372.00	Machine Hours
<input type="checkbox"/>	6	E EUPR1000	WAGE		720	MIN	384.00	Wage Hours
<input type="checkbox"/>	7	<span style="border: 1px solid red; padding: 0 2px;">S</span>					46,220.00	
<input type="checkbox"/>	8	G					9,092.80	Material Overhead
<input type="checkbox"/>	9	G					154.44	Prod. Wages Overhead

Select  to return to the *Create Base Planning Object: Master Data* screen.

Click on  to save your calculation.

 Base planning object EU00 TRBC1400 was saved

Click on  to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with .



## Step 16: Create finished product

**Task** Create the above material.

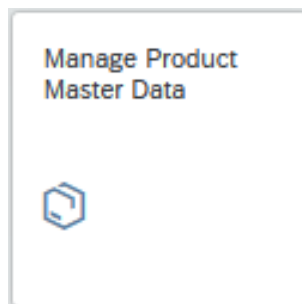
**Time** 15 Min.

**Short Description** Now create the material master for the finished product Touring bike computer.

**Name (position)** Jermain Kumins (Production Worker 1)

In the *Controlling* area, on the *Multilevel Product Cost Controlling* page, in the *Shop Floor Worker* role, use the *Manage Product Master Data* app.

Manage Product Master Data



In the search mask, enter **ORBC1###** in the *Product* field and click on **Go**. The system will display your Off Road Bike Computer.

ORBC1###

Products (1)					Create	Copy	Mass Processing	Show in Hierarchy	Delete			
Image	Description / ID	Group / Type	GTIN	Product Category								
	Off Road Bike Computer ORBC1400	Utilities (UTIL) Finished Product (FERT)		Product								

Select the entry and click on **Copy**. A window opens in which the Organizational Data to be copied must be selected.

Select Organizational Data to Copy

Off Road Bike Computer  
ORBC1400

☒ Plants  
2 items selected

Accept the default setting and click on **OK**.

In the next window create the basic data of the new master record. Enter **TRBC1###** as the *Product Number* and change the *Description* to **Touring Bike Computer**. All other data can be taken over.

TRBC1###  
Touring Bike Computer

Create Master Data Record

Product Number: TRBC1400	Base Unit: * Piece (PC)	Change Number:
Product Type: * Finished Product (FERT)	GTIN:	Revision Level: <a href="#">Create Revision Level</a>
Product Category: Product	GTIN Category:	
Product Group: Utilities (UTIL)		

Description: \*  
Touring Bike Computer

Click on **OK** to continue.

The system now shows you the new data set for your Touring bike computer. Scroll to the *Descriptions* in the *General Information* section. Adjust the German name of the product here and enter **Touring Fahrradcomputer**.

Descriptions

Descriptions (2)

Language	Product
<input type="radio"/> DE	Touring Fahrradcomputer
<input type="radio"/> English (EN)	Touring Bike Computer

Click on **Create** to save the new product master record.

Master data record created

Click on **SAP** to return to the SAP Fiori Launchpad.

Touring  
Fahrradcomputer



## Step 17: Extend product master data record for costing

**Task** Extend the master data record of your new finished product.

**Time** 5 Min.

**Short Description** To enable costing with quantity structure, the previously created master data record still needs to be extended.

**Name** (position) Jermain Kumins (Production Worker 1)

In the *Controlling* area, on the *Multilevel Product Cost Controlling* page, in the *Shop Floor Worker* role, use the *Change Material* app.

Change Material

Change Material



Enter **TRBC1###** in the *Material* field and click on **Continue**. The *Select View(s)* window opens. Select the view *Costing 1*.

TRBC1###  
Costing 1


Select View(s)



View	
<input type="checkbox"/> Basic Data 1	
<input type="checkbox"/> Basic Data 2	
<input type="checkbox"/> Extended SPP Basic Data	
<input type="checkbox"/> MRP 1	
<input type="checkbox"/> MRP 2	
<input type="checkbox"/> MRP 3	
<input type="checkbox"/> MRP 4	
<input type="checkbox"/> Advanced Planning	
<input type="checkbox"/> Extended SPP	
<input type="checkbox"/> Work Scheduling	
<input type="checkbox"/> General Plant Data / Storage 1	
<input type="checkbox"/> General Plant Data / Storage 2	
<input type="checkbox"/> Accounting 1	
<input type="checkbox"/> Accounting 2	
<input checked="" type="checkbox"/> Costing 1	

Confirm the selection by clicking on  (*Continue (enter)*).


HD00


In the following window, specify *Organizational Levels* for Plant **HD00** and confirm again with  (*Continue (enter)*).


Select the **With Qty Structure** and **Material origin** checkboxes.


With Qty Structure  
Material origin

General Data	
* Base Unit of Measure:	PC Piece
Do Not Cost:	<input type="checkbox"/>
With Qty Structure:	<input checked="" type="checkbox"/>
Material origin:	<input checked="" type="checkbox"/>
Origin Group:	<input type="text"/>
Overhead Group:	<input type="text"/>
Plant-Specific Mater:	<input type="text"/>
Valid From:	<input type="text"/>
Variance Key:	000001
Profit Center:	<input type="text"/>

Click on  to apply the changes. You will receive a confirmation from the system.

 Material TRBC1400 changed

Click on  to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with .



Step 18: Create BOMs (Bill of Materials)

**Task** Create a BOM for the finished product Touring bike computer.

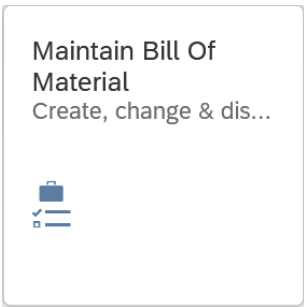
**Time** 15 Min.

**Short Description** This BOM now assembles the semi-finished product of the Touring bike computer with the two packaging materials to form the finished product.

**Name (position)** Jermain Kumins (Production Worker 1)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Shop Floor Worker* role, use the *Maintain Bill of Material* to create BOM.

Maintain Bill of Material



Click on **Create BOM** to create a new BOM . The *Create BOM* window opens.

In the *Material* field, enter the finished product you just created, **TRBC1###**. Furthermore, enter **HD00** as the *Plant* and select **1 (Production)** for the *BOM Usage*.

TRBC1###  
HD00  
1 (Production)

Create BOM

Material: *	TRBC1400	
Plant:	HD00	
BOM Usage: *	1 (Production)	
Alternative BOM:		
Change Number:		
Valid From:	08/23/2023	
Change Record:		

**OK** Cancel

Click on **OK** to accept your input.

The *Maintain Bill of Materials* screen appears. In the *Item Category* column, select **N(Non-stock item)** for the second and third items.

N(non-stock item)

Then enter **TRSC1###** (Touring Bike Computer semi-finished), **TRLB1###** (Touring Label) and **PKBC1###** (Packaging Bike computer) in the *Component* column in the first three lines. The last two components do not have their own storage location and are used directly during production. Therefore these are the non-stock items.

TRSC1###  
TRLB1###  
PKBC1###

Add a quantity of **1** in the *Component quantity* column, *PC* is automatically preselected as the *Unit of Measure* when you enter the components.

1

Standard					Search	
<input type="checkbox"/>	Item Nu...	Item Category	Component	Preliminary Component	Component Quantity	
<input type="checkbox"/>	0010	Stock item (L)	TRSC1400		1.000	PC
<input type="checkbox"/>	0020	Non-stock item (N)	TRLB1400		1.000	PC
<input type="checkbox"/>	0030	Non-stock item (N)	PKBC1400		1.000	PC

Click on **Create** to save the new BOM. You will receive a confirmation from the system.

Material BOM saved

Click on **SAP** to return to the SAP Fiori Launchpad.



## Step 19: Change BOMs (Bill of Materials)

**Task** Change a BOM for the product *Touring bike computer* semi-finished.

**Time** 15 Min..

**Name (position)** Jermain Kumins (Production Worker 1)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Shop Floor Worker* role, use the *Maintain Bill of Material* to change a BOM

Change Bill of Material

Change Bill of Material

In the *Material* field, enter the semifinished product you just created, **TRBC1###**. Furthermore, enter **HD00** as the *Plant* and select **1** (Production) for the *BOM Usage*.

TRBC1###  
HD00  
1 (Production)

**SAP** Change material BOM: Initial Screen

Menu ▾

\* Material: TRBC1400

Plant: HD00 Plant Heidelberg

\* BOM Usage: 1 Production

Alternative BOM:

Validity

Change Number:

Valid From: 08/23/2023

Revision Level:

Click on Item.

Double-click on the *0010 position* to open the details.

Please switch to the *Status/Long text* tab and select **X (100% Relevant to Costing)** for CostingRelevncy in this area.

X

Basic Data   Status/Long Text   Administration   Document Assignment

**BOM Item**

Item Number: 0010


Component: TRSC1400

Touring Bike Computer semi-finished

Item Category: L Stock item


Item ID: 00000001

**Item Text**


Line 1:  


Line 2:


Item Status	Additional Data
Engineering/design: <input type="checkbox"/>	Mat. Provision Ind. <input type="checkbox"/>
Production relevant: <input checked="" type="checkbox"/>	Bulk material: <input type="checkbox"/>
Plant maintenance: <input type="checkbox"/>	Bulk Mat. Ind. Mat. Mst: <input type="checkbox"/>
Spare Part Indicator <input type="checkbox"/>	Storage Location <input type="text"/>
Relevant to sales <input type="checkbox"/>	Prodn Supply Area <input type="text"/>
Costing Relevancy <input checked="" type="checkbox"/>	


Select  to return to the Change Material BOM: General Item Overview screen.

Please perform the same procedure for *position 0020, 0030*.

Click on  to change your Bill of Material.

 BOM for material TRBC1400 changed

Click on  to return to the SAP Fiori Launchpad.



Step 20: Create cost estimate with quantity structure

**Task** Create a cost estimate with quantity structure for the Touring bike computer.

**Time** 15 Min.

**Short Description** After the manufacturing costs for the bicycle computer have been calculated in advance using the base planning object, a cost estimate with quantity structure is now created. This is done with the help of the material cost estimate.

**Name (position)** Shuyuan Chen (Accounting Manager)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Controller* role, use the *Create Material Cost Estimates* app to create a material cost estimate.

Create Material Cost Estimates



The *Create Material Cost Estimate with Quantity Structure* screen appears. Enter **TRBC1###** (your finished product Touring Bike Computer) in the *Material* field and **HD00** (Heidelberg) as the *Plant*. The *Costing Variant* is **ZPC1** (standard cost estimate Mat+OC), the *Costing Version* is **1** and you enter **1000** in the *Costing Lot Size* field.

TRBC1###  
HD00  
ZPC1  
1  
1000

< **SAP** Create Material Cost Estimate with Quantity Structure

Menu ▾ 68

\* Material: TRBC1400

\* Plant: HD00

Costing Data Dates Qty Struct.

\* Costing Variant: ZPC1

Costing Version: 1

Costing Lot Size:

Transfer Control:

Now select the *Dates* tab. This is not prefilled, click on [Default Values](#) to create dates.

The costing dates *from* and *to* indicate the period of validity of the cost estimate. The explosion date determines the point in time at which the then valid quantity structure is used. Based on the valuation date, the valid price

Current Date

and date data are selected. Change the date in the *Costing Date From* field to the **current date**.

Costing Data   Dates   Qty Struct.

\* Costing Date From: 08/23/2023

\* Costing Date To: 12/31/9999

\* Qty Structure Date: 09/01/2023

\* Valuation Date: 09/01/2023

Default Values

Now click on the *Quantity Structure (Qty Struct.)* tab and enter **1** in the *Usage* field. This indicates that the production BOM is to be used as the quantity structure for the cost estimate.

1

Costing Data   Dates   Qty Struct.

BOM Data   Routing Data

BOM:

Usage:

Alternative:

Production Version:

Task List Type:

Group:

Group Counter:

Press Enter. You will now see the calculation overview.

SAP Create Material Cost Estimate with Quantity Structure

Menu > Costing Structure Off > Detail List Off > Hold > PC

\* Material: TR8C1400 Touring Bike Computer

\* Plant: HD00

Costing Data   Dates   Qty Struct.   Valuation   History   Costs

\* Costs Based On: 1 Costing Lot Size 1,000 PC

Cost Component View	Total Costs	Fixed Costs	Variable Costs	Currency
Cost of Goods Manufactured	65,474.16	0.00	65,474.16	EUR
Cost of Goods Sold	127,765.39	0.00	127,765.39	EUR
Sales and Administration Costs	62,291.23	0.00	62,291.23	EUR
Inventory (Commercial)	0.00	0.00	0.00	EUR
Inventory (Tax-Based)	0.00	0.00	0.00	EUR

1 Cost of Goods Manufactured

Itemization in Company Code Currency

Item No.	Resource	Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
1	M HD00 TR8C1400	5004000	54,318.80	0.00	EUR	1,000	PC
2	M HD00 TR8L1400	5002000	50.00	0.00	EUR	1,000	PC
3	M HD00 PR8C1400	5002000	150.00	0.00	EUR	1,000	PC
4	G EUPR1000 8015000	8015000	10,903.36	0.00	EUR		
5	G EUPR1000 8012000	8012000	54.00	0.00	EUR		
6	G EUAD1000 8013000	8013000	0.00	0.00	EUR		
7	G EUSA1000 8014000	8014000	0.00	0.00	EUR		
			65,474.16	0.00	EUR		

Scroll down and click on  (*Cost Comps*) in about the middle of the screen to display the individual Cost Components.



1 Cost of Goods Manufactured					
Cost Components in Company Code Currency					
CC...	Name of Cost Comp.	Overall	Fixed	Variable	Currency
1	Raw Materials	35,800.00		35,800.00	EUR
2	Human Resources				EUR
3	Production				EUR
4	Material Overhead	29,620.16		29,620.16	EUR
5	Production Overhead	54.00		54.00	EUR
8	External Activity				EUR
9	Miscellaneous				EUR
		65,474.16		65,474.16	EUR

This overview is similar to the previously created sample cost estimate, the costs can be fundamentally compared with each other.

In the dropdown in the middle of the screen, now change from *Cost of goods manufactured* to *Cost of goods sold*. Additional overhead surcharges are displayed, which are to be assigned to administration and sales. These make up the difference between cost of goods manufactured and cost of goods sold.

2 Cost of Goods Sold					
Cost Components in Company Code Currency					
CC...	Name of Cost Comp.	Overall	Fixed	Variable	Currency
1	Raw Materials	35,800.00		35,800.00	EUR
2	Human Resources				EUR
3	Production				EUR
4	Material Overhead	29,620.16		29,620.16	EUR
5	Production Overhead	54.00		54.00	EUR
6	Admin. Overhead	26,696.24		26,696.24	EUR
7	Sales Overhead	35,594.99		35,594.99	EUR
8	External Activity				EUR
9	Miscellaneous				EUR
		127,765.39		127,765.39	EUR

**Optional** What is the difference between cost of goods sold and cost of goods sold? Research these two cost accounting terms.

On the left side of the screen you can see the structure of the finished product. View the individual components of the product, adjust the size of the area for this purpose if necessary.

Costing Structure	Err	Total value	Curr...	Quantity	Uni...	Resource
▼  Touring Bike Computer	■	127,765.39	EUR	1,000	PC	HD00 TRBC1400
▼  Touring Bike Computer semi-finished	■	93,622.08	EUR	1,000	PC	HD00 TRSC1400
▼  Basic Casing	■	25,058.40	EUR	1,000	PC	HD00 BCSG1400
Pushbutton	■	1,296.00	EUR	4,000	PC	HD00 PSBT1400
Casing	■	9,396.00	EUR	1,000	PC	HD00 CSNG1400
Display Coverage	■	6,480.00	EUR	1,000	PC	HD00 DPCV1400
Touring Circuit Board	■	40,500.00	EUR	1,000	PC	HD00 TRCB1400
Touring Label	■	50.00	EUR	1,000	PC	HD00 TRLB1400
Packaging Bike Computer	■	150.00	EUR	1,000	PC	HD00 PKBC1400

Click on to save your material costing.

The SAP system saves the cost estimate for material *TRBC1###* and issues a corresponding message.

The cost estimate is being saved

Click on to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with .



## Step 21: Mark price update

**Task** Mark the price update.

**Time** 10 Min.

**Short Description** Transfer the unit costs as standard price into the material master using the price update. To do this, first create a corresponding marking.

**Name (Position)** Shuyuan Chen (Accounting Manager)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Head of Accounting* role, use the *Release Material Cost Estimates* app to mark the price update.

Release Material Cost  
Estimates



The *Price Update: Mark Standard Price* screen appears. Enter **the current month** and the **current year** as the posting period.

Current Month  
Current Year

Enter **DE00** (Germany) as the *Company Code*, **HD00** as the *Plant* and the *Material* **TRBC1###**. In addition, remove the check mark from **Test run**.

DE00  
HD00  
TRBC1###  
Test-run

Posting Period/Fiscal Year:   [Marking Allowance](#)

Company Code:  to:  [→](#)

Plant:  to:  [→](#)

Material:  to:  [→](#)

---

**Valuation View**

Legal Valuation: ☒

---

**Processing Options**

Test Run: ☐

With List Output: ☒

☐ Parallel Processing

Background Processing: ☐

Perform the marking with a click on [Execute](#). The system will then give you a log.

Except...	Ty	Material	Plant	AppAr	Msg.no.	Message Text
<input checked="" type="checkbox"/>	I			CK	790	***** Summary : *****
<input checked="" type="checkbox"/>	I			CK	705	Of 1 materials, 1 cost estimates were updated successfully

The material has now been transferred to the material master as a planned price. The next step is to release it as the current price in the material master.

Click on [SAP](#) to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with [Ok](#).

☐

## Step 22: Release price update

**Task** Perform a price release for the Touring bike computer.

**Time** 5 Min.

**Short Description** Release the preregistered price update for the material master. If the period has changed in the meantime, the marking must be performed again. The reason for this is that the marking is done with reference to the posting period and therefore cannot be used for release outside this period.


**Name (position)** Shuyuan Chen (Accounting Manager)

In the *Controlling* area on the *Multilevel Product Cost Controlling* page in the *Head of Accounting* role, use the *Release Material Cost Estimates* app to release the price update.

Release Material Cost  
Estimates

Release Material  
Cost Estimates



Click on  **Release** to switch from marking to releasing material cost estimates. Again, make sure that the **current month** is selected as the *posting period* and the **current year**.

Current Month  
Current Year

Enter **DE00** (Germany) as the *Company code*, **HD00** as the *Plant* and the *Material* **TRBC1###**. In addition, remove the check mark from **Test run**.

DE00  
HD00  
TRBC1###  
~~Test run~~

Posting Period/Fiscal Year:

82023

Company Code:

DE00

to:

Plant:

HD00

to:

Material:

TRBC1400

to:

No. of Materials in Document:

128

Processing Options

Test Run:

With List Output:

Parallel Processing

Background Processing:

Then perform the release by clicking on 

Execute

. The system then displays the list output.

Except...	Ty	Material	Plant	AppAr	Msg.no.	Message Text
	I			CKPR...	019	Price change document 3000000597 posted
	I			CK	790	***** Summary : *****
	I			CK	705	Of 1 materials, 1 cost estimates were updated successfully

Click on 

SAP

 to return to the SAP Fiori Launchpad.

Confirm any browser warnings that may appear with 

Ok

.

## Step 23: Check price update

**Task** Perform a check of the price release.

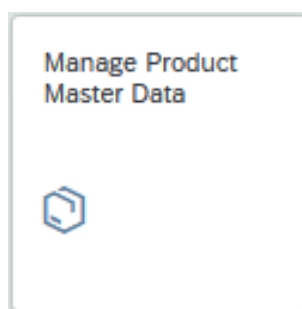
**Time** 5 Min.

**Short Description** Check if the price update was successful. You do this directly in the product master data.

**Name (position)** Jermain Kumins (Production Worker 1)

In the *Controlling* area, on the *Multilevel Product Cost Controlling* page, in the *Shop Floor Worker* role, use the *Manage Product Master Data* app to check the price update.

Manage Product Master Data



In the search mask, enter **TRBC1###** in the *Product* field and click on **Go**. The system will display your Touring Bike Computer.

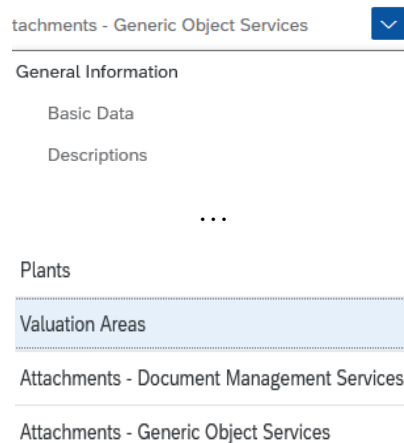
TRBC1###

Products (1)					Create	Copy	Mass Processing	Show in Hierarchy	Delete				
	Description / ID	Group / Type	GTIN	Product Category									
	<a href="#">Touring Bike Computer</a> TRBC1400	Utilities (UTIL) Finished Product (FERT)		Product									


Click on the entry to open the details of the product.

On the right edge of the screen, use the pull-down menu to select the *Valuation Areas* section.

Valuation areas



The screen automatically scrolls to the appropriate section.


Valuation Areas						
<div>Search </div>						
Valuation Area	Valuation Type	Price Control Determination	Valuation Category	Valuation Class	Split Indicator	Marked for Deletion
DL00		Transaction-Based (Z)		Finished products (7920)	Not Applicable	No >
HD00		Transaction-Based (Z)		Finished products (7920)	Not Applicable	No >

Click on the line with the Valuation Area *HD00* to view more details of the material.

Select the *Valuation tab* ► *Current period*. Here you can see the price of the posted material cost estimate as the currently valid standard price.

Current Period							
Currency Type...	Ledger	Currency	Inventory Price		Standard Price		Price Unit
10	Leading Ledger (OL)	EUR	65.47	EUR	65.47	EUR	1
			Standard price (S)				

As a result of your price update, the calculated price for the Touring Bike Computer was updated as the standard price in the material master.

Click on  to return to the SAP Fiori Launchpad.

