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## **Key User Training Document**

### **PC102 - Cost Estimate with Quantity Structure**

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Version: 1.0

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# Course Information

<b>Course ID</b>	<b>PC102</b>
Course Description	Cost Estimate with Quantity Structure
Course Duration	4 hrs.
Course Pre-requisite	PC101
<b>Course Objective</b>	<ul style="list-style-type: none"><li>To understand concept of Cost Estimate with Quantity Structure</li></ul>

# Course Information

AROUND



## Table of Content (สารบัญ)

- Create Cost Estimate with Quantity Structure
- Mark and Release Price
- Costing Run

## Output (ผลที่คาดว่าจะได้รับ)

Understand Cost Estimate with Quantity Structure  
Able to execute Cost Estimate with Quantity Structure



## Course Overview

**Cost Estimate with Quantity  
Structure Overview**

**Create Cost Estimate with Quantity  
Structure**

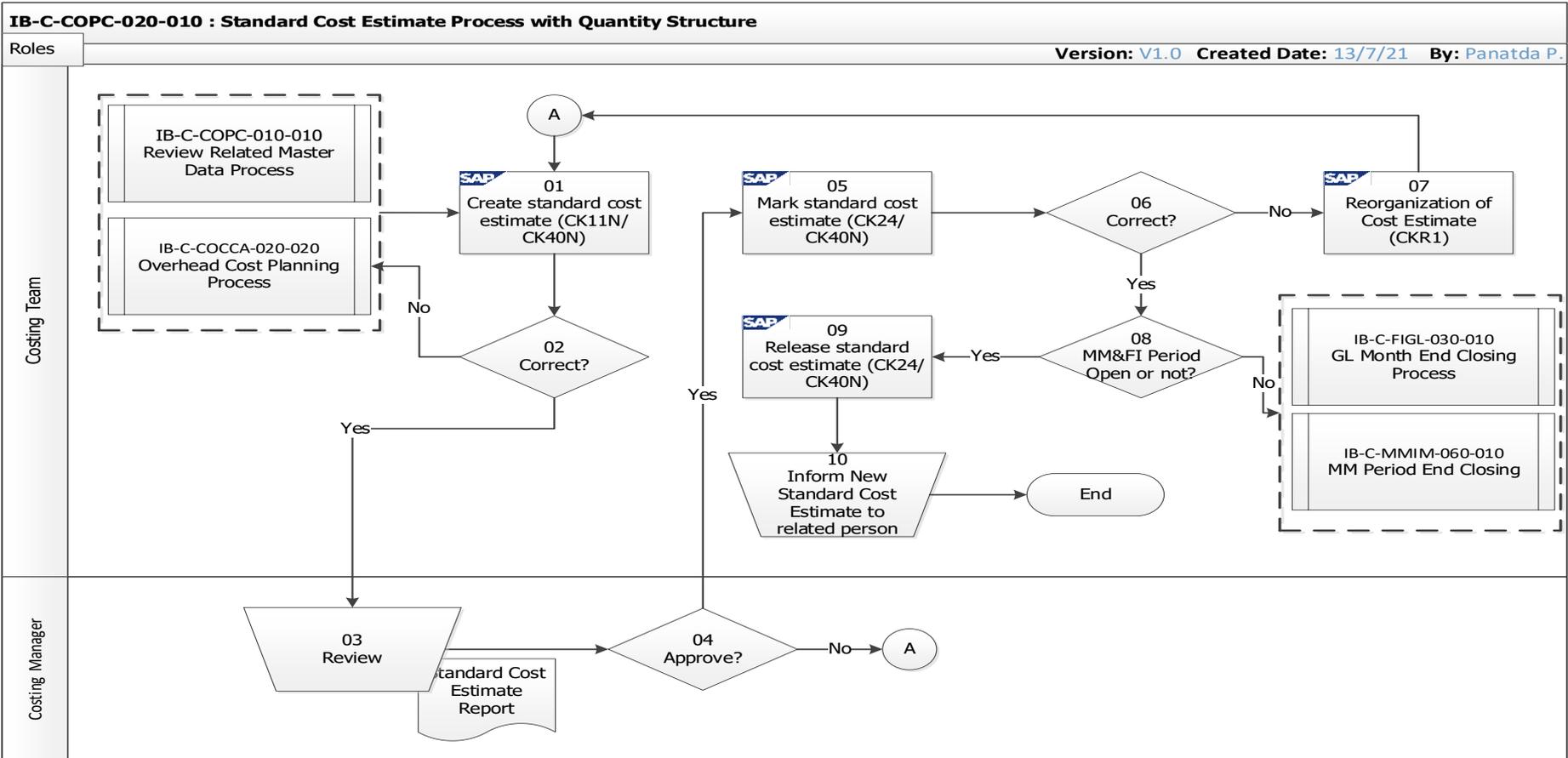
**Mark and Release Cost Estimate**

**Costing Run**

**Q&A**

# Course Overview

## IB-C-COPC-020-010 Standard Cost Estimate Process with Quantity Structure



# Course Overview

## Costing Variant

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The costing variant contains control parameters and settings for costing. These settings determine how costing is executed, such as which prices of raw material that the system uses to cost materials, activities and overhead. A costing variant for material cost estimates contains additional control parameters, such as for automatic determination of the quantity structure and for updating the prices in the material master.

### Costing Variant Standard Cost Estimate with Quantity Structure for IB:

Costing Variant	Name	Objective	Mark/Release
ZPCA	BTG-IB Standard Cost	Standard price Legal valuation	<b>Yes</b>
ZBG0	Budget V.0	Budget information	No
ZPC4	BTG_Simulate ForeCast	Simulation	No

# Course Overview

## Costing Variant – ZPCA: Material Price Strategy

AROUND



Priority	Strategy Sequence
1	U Valuation Price with User Exit
2	4 Planned Price 1
3	7 Valuation Price According to Price Control in Mat. Master
4	
5	

**Price Update in  
Material Master**

Yes

# Course Overview

Costing Variant – **ZPCA**: Material Price Strategy (Feed)

AROUND



**Display View "Valuation Variants (Organizational-Unit-"**

Go

Valuation Variant: Z09      BTG\_Food Standard Cost  
in plnt: A9C1

Material val.   Internal acty   Subcontracting   Ext. Processing   Overhea

Priority	Strategy Sequence
1	3 Moving Average Price
2	4 Planned Price 1
3	7 Valuation Price According to Price Control in Mat. Master
4	U Valuation Price with User Exit
5	

**Price Update in  
Material Master**

Yes

# Course Overview

Costing Variant – **ZBGO** : Budget V.0

AROUND



Priority	Strategy Sequence
1	U Valuation Price with User Exit
2	4 Planned Price 1
3	7 Valuation Price According to Price Control in Mat. Master
4	
5	

**Price Update in  
Material Master**

No

# Course Overview

## Costing Variant – ZPC4: Material Price Strategy

AROUND



Priority	Strategy Sequence
1	5 Planned Price 2
2	4 Planned Price 1
3	U Valuation Price with User Exit
4	7 Valuation Price According to Price Control in Mat. Master
5	

**Price Update in  
Material Master**

No



**Course Overview**

**Cost Estimate with Quantity  
Structure Overview**

**Create Cost Estimate with Quantity  
Structure**

**Mark and Release Cost Estimate**

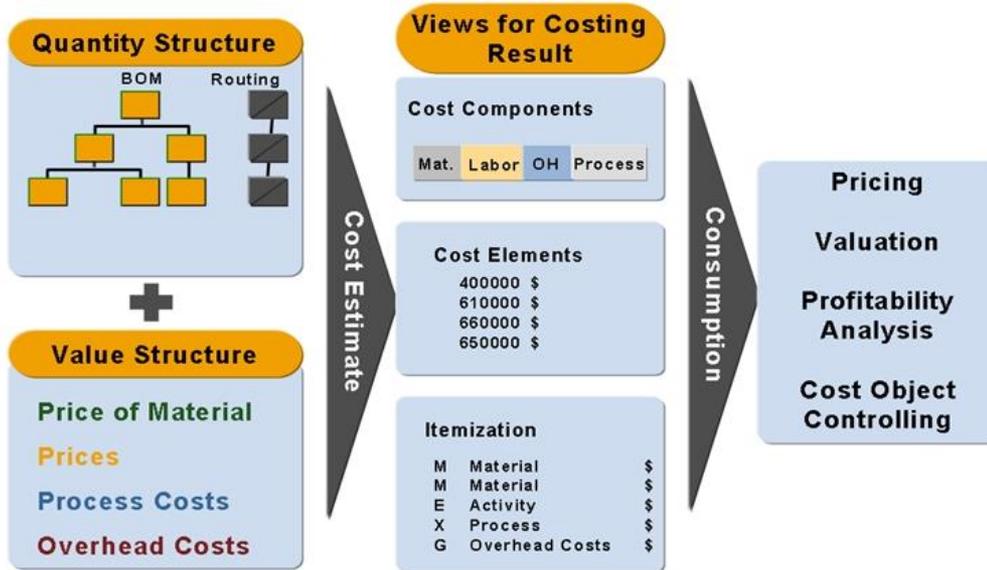
**Costing Run**

**Q&A**

# Cost Estimate with Quantity Structure

## Cost Estimate with Quantity Structure Overview

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## Cost Estimate with Quantity Structure

The standard Cost Estimate for a material is created at the beginning of the fiscal year for preparing annual planning and budgeting, and optional to release new standard cost at the beginning of a new period of each month (This method is for both standard cost estimate with quantity structure and standard cost estimate without quantity structure).

# Cost Estimate with Qty. Structure: Transactions

AROUND



Cost Estimate with Quantity Structure Consists of:

T-Code: **CK11N**

Create Cost Estimate with Quantity Structure

T-Code: **CK24**

Mark and Release Cost Estimate

T-Code: **CK40N**

Create Costing Run

T-Code: **S\_P99\_41000111**

Report Cost Estimate – Object Lists



**Course Overview**

**Cost Estimate with Quantity  
Structure Overview**

**Create Cost Estimate with Quantity  
Structure**

**Mark and Release Cost Estimate**

**Costing Run**

**Q&A**

# Cost Estimate with Quantity Structure

## CK11N – Create Material Cost Estimate with Quantity Structure

AROUND



**Create Material Cost Estimate with Quantity Structure**

Costing Structure On Detail List On Hold

Material  ①

Plant ②

Costing Data Dates Qty Struct.

Costing Variant ③

Costing Version

Costing Lot Size

Transfer Control

### Create Material Cost Estimate

1. **Material** – Input “Material” to be created cost estimation.

2. **Plant** – Input “Plant” of material to be created cost estimation.

3. **Costing Variant** – Input ‘Costing variant’ :

Press “ENTER” to continue.

# Cost Estimate with Quantity Structure

## CK11N – Create Material Cost Estimate with Quantity Structure

AROUND



**Create Material Cost Estimate with Quantity Structure**

Costing Structure On Detail List On Hold

Material: A110201015    เภทวโกร 301(I13) หมุทยวหม-25กค/30กค  
Plant: A9C1

Costing Data    Dates    Qty Struct.

Costing Date From	24.12.2021	4
Costing Date To	31.12.9999	5
Qty Structure Date	24.12.2021	6
Valuation Date	24.12.2021	7

Default Values

### Create Material Cost Estimate

- 4. Costing Date From** – Input date from which the cost estimate is valid.
- 5. Costing Date To** – Input date to which the cost estimate is valid.
- 6. Qty Structure Date** – Input date with which the quantity structure is selected for the cost estimate with quantity structure.
- 7. Valuation Date** – Input date on which the materials and activities in a cost estimate are valued.

Press "ENTER" to continue.

# Cost Estimate with Quantity Structure

## CK11N – Create Material Cost Estimate with Quantity Structure

AROUND



Create Material Cost Estimate with Quantity Structure

8

Material: A110201015 Plant: A9C1

Cost Component View	Total Costs	Fixed Costs	Variable Costs	Currency
Cost of Goods Manufactured	214.77	0.00	214.77	USD
Cost of Goods Sold	214.77	0.00	214.77	USD
Sales and Administration Costs	0.00	0.00	0.00	USD
Inventory (Commercial)	214.77	0.00	214.77	USD
Inventory (Tax-Based)	0.00	0.00	0.00	USD

ItemNo	Resource	Cost Element	Total Value*	Fixed Value	Currency	Quantity	Un	IGr
1	E 3500140115 PAC003 PFDPK3	8310511004	0.31	0.00	USD	4	MIN	
2	E 3500140115 PAC003 PLD001	8310510101	7.21	0.00	USD	4	MIN	
3	E 3500140115 PAC003 PFOEE1	8310510100	0.00	0.00	USD	0.0	HR	
4	E 3500140115 PAC003 POH001	8310550100	0.35	0.00	USD	4	MIN	
5	M A9C1 W111200089	5101040000	173.47	0.00	USD	1,000	KG	SFG
6	M A9C1 P000000349	5101020000	33.43	0.00	USD	33.429	PC	A090
			<b>214.77</b>	<b>0.00</b>	<b>USD</b>			

### Create Material Cost Estimate

8. Click to save cost estimated.

9. Update Parameters screen is pop-up. Select the following option:

- Itemization
- Log

Update Parameters

Cost Comp.Split

Itemization

Log

9

The cost estimate is being saved

# Cost Estimate with Quantity Structure

## CK13N - Display Cost Estimate with Quantity Structure

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**Display Material Cost Estimate with Quantity Structure**

Costing Structure Off Detail List Off Hold

Material: A110201015      ๒๒๓๓๓ 301(I13) ๒๒๓๓๓-25๓๓/30๓๓  
 Plant: A9C1

Costing Structure: SEMI WIP 301I13 StarterPk, WB+PE Balance 910 30kg

Costs Based On: 1 Costing Lot Size, 1,000, KG

Cost Component View	Total Costs	Fixed Costs	Variable Costs	Currency
Cost of Goods Manufactured	214.77	0.00	214.77	USD
Cost of Goods Sold	214.77	0.00	214.77	USD
Sales and Administration Costs	0.00	0.00	0.00	USD
Inventory (Commercial)	214.77	0.00	214.77	USD
Inventory (Tax-Based)	0.00	0.00	0.00	USD

1 Cost of Goods Manufactured

Cost Components for Material A110201015

CC...	Name of Cost Comp.	Overall	Fixed	Variable	Crcy
22	Direct Labor	22.65		22.65	USD
24	Direct Depreciation	0.97		0.97	USD
26	Direct Maintenance				USD
28	Direct UT&Power	0.60		0.60	USD
30	Direct Other OH	0.48		0.48	USD
32	Indirect Labor				USD
34	Indirect Depre.				USD
36	Indirect Maintenance				USD
38	Indirect UT&Power				USD
40	Indirect Other OH				USD
50	Direct-Rental				USD
60	Indirect-Rental				USD
		<b>214.77</b>		<b>214.77</b>	<b>USD</b>

**Cost Component View**



**Course Overview**

**Cost Estimate with Quantity  
Structure Overview**

**Create Cost Estimate with Quantity  
Structure**

**Mark and Release Cost Estimate**

**Costing Run**

**Q&A**

# Cost Estimate with Quantity Structure

## Mark and Release Cost Estimate

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To transfer the results of a standard cost estimate as the standard price in the material master, you must mark and release the standard cost estimate.

When you mark a standard cost estimate, the costing results are written to the costing view of the material master as the future planned price.

Marking: You can mark the cost estimate more than once at any time (until you release it).

Release:

- Releasing a cost estimate can only be **done once** in a period
- Must not have Goods Movement in the period before release
- Release Cost Estimate before finish Material Ledger Period End Closing of Previous Period

# Cost Estimate with Quantity Structure

## CK24 – Mark Cost Estimate (1/2)

**Price Update: Mark Standard Price**

Release Other Prices

5

Posting Period/Fiscal Year: 12 2021 1

Company Code: 1035 to

Plant: a9c1 to

Material: A110201015 to 4

Marking Allowance

Processing Options

Test Run

With List Output 3

Parallel Processing

Background Processing

1. Posting Period/Fiscal Year
2. Company/Plant/Material
3. Processing Options
  - Test Run
  - With List Output to display Log
4. Marking Allowance กดปุ่ม "Marking Allowance" to allow Marking

**Price Update: Organizational Measure**

Posting Period/Fiscal Year: 12 2021

Ex...	Company Code	Valuation View	Costing Version	Released
●	0001	Legal Valuation		
●	0003	Legal Valuation		
■	1035	Legal Valuation	1	✓
●	1037	Legal Valuation		
●	1054	Legal Valuation		

5. Execute to "Mark" Standard Cost of Material
6. System displayed Log

**Price Update**

Error Management

Log created on 24.12.2021

Information: 2

Warnings: 0

Error: 0

Total: 2 6

△	T	Material	Plant	AppAr	MsgNo	Message Text
○	I			CK	790	***** Summary : *****
○	I			CK	705	Of 1 materials, 1 cost estimates were updated successfully

# Cost Estimate with Quantity Structure

## CK24 – Mark Cost Estimate (2/2)

**Display Material A110201015 (Feed)**

Additional Data   Org. Levels

Costing 1   **Costing 2**   Plant stock   Stor. loc. stk   WM Execution   WM Packaging   Seg. Valuation Data

Material: A110201015   i

Descr.: เมทาโพร 301(I13) หมูขุนนม-25กก/30กก

Plant: A9C1   BGC-Feed mill

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**Standard Cost Estimate**

	Future	Current	Previous
Cost Estimate			
Period / Fiscal Year	12   2021	11   2021	0
Planned Price	0.21	0.78	0.00
Standard price		0.78	

---

**Planned prices**

Planned price 1	0.01	Planned price date 1	01.10.2021
Planned price 2	0.00	Planned price date 2	
Planned price 3	0.00	Planned price date 3	

---

**Valuation Data**

Valuation Class	AF01	Valuation Category	
VC: Sales order stk		Proj. stk val. class	
Price control	S	Current period	12   2021
Price unit	1	Currency	USD
Moving price	0.00	Standard price	0.78

# Cost Estimate with Quantity Structure

## CK24 – Release Cost Estimate (1/2)

AROUND



### Price Update: Mark Standard Price

Release Other Prices

Price Update: Release Standard Price

Marking Other Prices

Posting Period/Fiscal Year: 12 2021

Company Code: 1035 to   
 Plant: A9C1 to   
 Material: A110201015 to

1. Press "Release" to enter Screen Release Standard Cost

2. Enter information

3. กด Execute เพื่อทำการ "Release" to release Standard Cost of Material

4. System displayed Log

### Price Update

Error Management

Log created on 24.12.2021

Information 3  
 Warnings  
 Error  
 Total 3

	T	Material	Plnt	AppAr	MsgNo	Message Text
	I			CKPRCH	019	Price change document 3000000059 posted
	I			CK	790	***** Summary : *****
	I			CK	705	Of 1 materials, 1 cost estimates were updated successfully

# Cost Estimate with Quantity Structure

## CK24 – Release Cost Estimate (2/2)

**Display Material A110201015 (Feed)**

Additional Data   Org. Levels

Costing 1   Costing 2   Plant stock   Stor. loc. stk   WM Execution   WM Packaging   Seg. Valuation Data

Material: A110201015  
 Descr.: เมทาโกร 301(I13) หมูหย่านม-25กก/30กก  
 Plant: A9C1   BGC-Feed mill

**Standard Cost Estimate**

Cost Estimate	Future	Current	Previous
Period / Fiscal Year	0	12 2021	11 2021
Planned Price	0.00	0.21	0.78
Standard price		0.21	

**Planned prices**

Planned price 1	0.01	Planned price date 1	01.10.2021
Planned price 2	0.00	Planned price date 2	
Planned price 3	0.00	Planned price date 3	

**Valuation Data**

Valuation Class	AF01	Valuation Category	
VC: Sales order stk		Proj. stk val. class	
Price control	S	Current period	12 2021
Price unit	1	Currency	USD
Moving price	0.00	Standard price	0.21



**Course Overview**

**Cost Estimate with Quantity  
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**Mark and Release Cost Estimate**

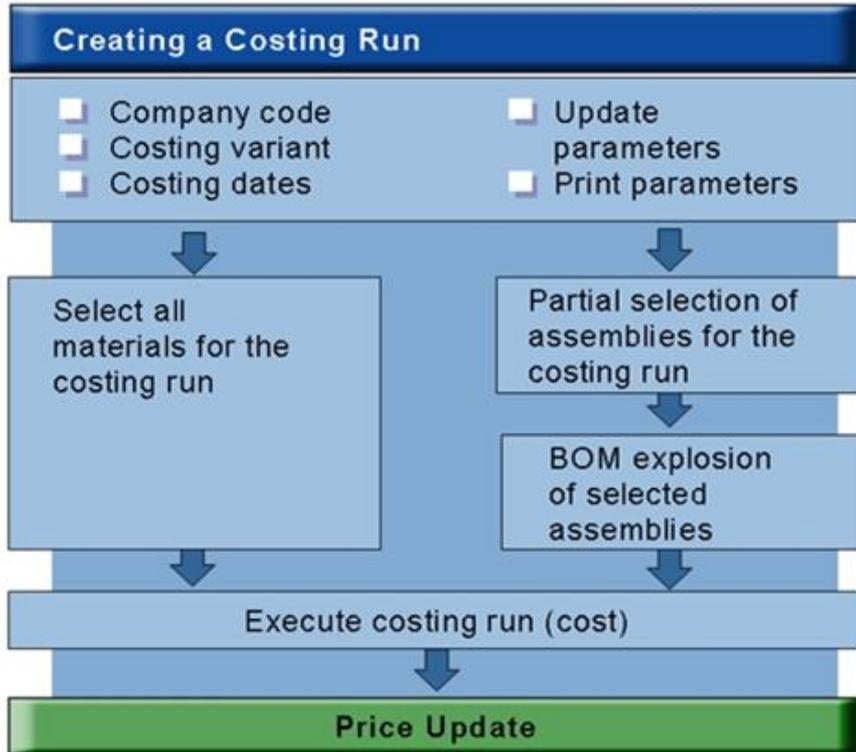
**Costing Run**

**Q&A**

# Cost Estimate with Quantity Structure

## Costing Run

AROUND



**Costing Run** is a tool to calculate Standard Cost for Multiple Material

Costing Run has Flow steps to calculate the standard cost as following:

- Selection
- BOM explosion
- Costing
- Analysis
- Marking
- Release

# Cost Estimate with Quantity Structure

## CK40N – Create Costing Run: Costing Data

AROUND



Costing Run Edit Goto Settings System Help

1 **Create Costing Run**

Create with Reference

Costing Run [ ] Description

Costing Run Date [ ]

Costing data

Costing Variant ZPC1 2

**Create Costing Run**

Create with Reference

Costing Run zfeed01 3 Description A9c1 Std Cost Estimation 4

Costing Run Date 241221

Costing data 5

Costing Variant ZPCA

Costing Version 1

Controlling Area BTGg

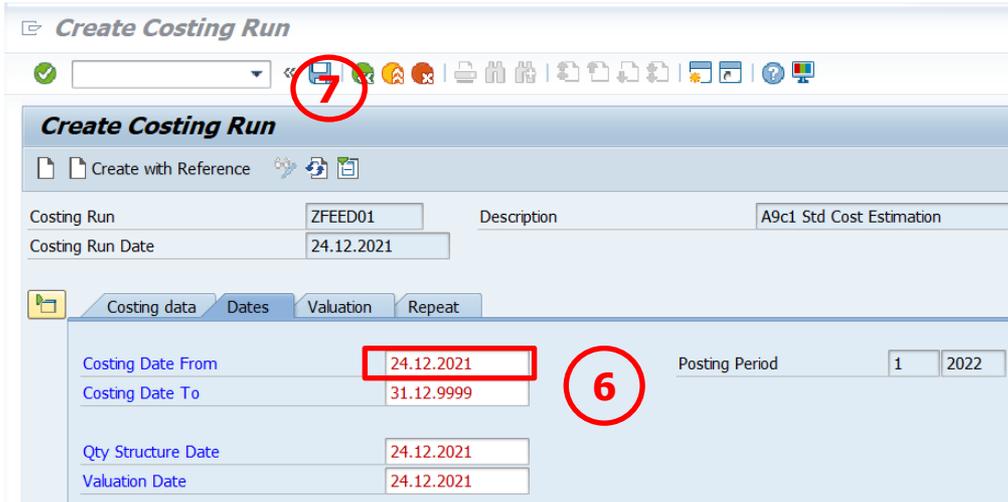
Company Code 1035

Transfer Control [ ]

1. **Create** Press Create to create Costing Run
2. **Costing Run** Input Costing Run Name
3. **Costing Run Date** Input date of Costing Run
4. **Description**
5. Input Costing data
  - **Costing Variant** Costing Variant to calculate Standard Cost
  - **Costing Version** = 1
  - **Controlling Area** ระบุ "BTGG"
  - Company** Company CodePress ENTER

# Cost Estimate with Quantity Structure

## CK40N – Create Costing Run: Dates



**Create Costing Run**

Costing Run: ZFEED01    Description: A9c1 Std Cost Estimation  
Costing Run Date: 24.12.2021

Costing data | **Dates** | Valuation | Repeat

Costing Date From: 24.12.2021    Posting Period: 1 2022  
Costing Date To: 31.12.9999  
Qty Structure Date: 24.12.2021  
Valuation Date: 24.12.2021

Tab "Dates"

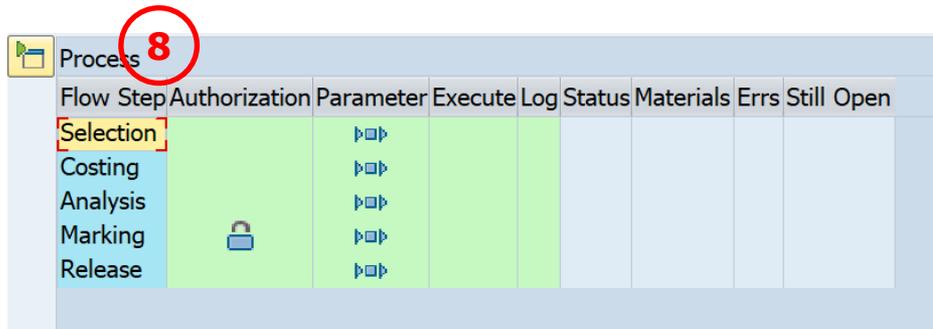
6.

**Costing Date From** – Input date from which the cost estimate is valid.

**Costing Date To** – Input date to which the cost estimate is valid.

**Qty Structure Date** – Input date with which the quantity structure is selected for the cost estimate with quantity structure.

**Valuation Date** – Input date on which the materials and activities in a cost estimate are valued.



Process	Flow Step	Authorization	Parameter	Execute	Log	Status	Materials	Errs	Still	Open
Selection			▶▶							
Costing			▶▶							
Analysis			▶▶							
Marking		🔒	▶▶							
Release			▶▶							

7. Press SAVE

8. System display "Flow Step" . Select Parameter  in each step.

# Cost Estimate with Quantity Structure

## CK40N – Create Costing Run: Selection

AROUND



### Flow Step: Selection

Costing Run: Selection - Change Parameters

Variant Attributes

1

Selection Using Material Master

Material Number	A210101065	to		
Low-Level Code		to		
Material Type		to		
Plant	A9C1	to		

Selection Using Reference Costing Run

Costing Run	
Costing Run Date	

Selection Using Selection List

Selection List	
----------------	--

Selection via Additional Material Master

Valuation Class		to		
-----------------	--	----	--	--

Configured Materials  
 No Transfer of Cost Estimates  
 Explode Multilevel Structure

2

Processing Opts

<input type="checkbox"/> Background Processing	3
<input type="checkbox"/> Print Log	

1. Input Selection criteria
2. Select "Explode Multilevel Structure"  
เพื่อ Run Standard Cost ตาม BOM
3. Unselect "Background Processing"

Press SAVE to save Parameter

# Cost Estimate with Quantity Structure

CK40N – Create Costing Run: Costing

AROUND



Flow Step: **Costing**

**Costing Run: Cost Estimate - Change Parameters**

Variant Attributes 

Cost Ests with Errors Only  
 Log by Costing Level

**Costing Levels**

**Parallel Processing**

Parallel Processing  
Maximum No. of Servers/Modes

**Processing Opts**

Background Processing **1**   
 Print Log

1. Unselect "Background Processing"

Press SAVE to save Parameter

# Cost Estimate with Quantity Structure

## CK40N – Create Costing Run: Analysis

AROUND



Flow Step: **Analysis**

Choose Reference for Selection Parameter

Variant Catalog for Program RKKBCAL2

Variant name	Short Description
SAP&11	Results of Costing Run
SAP&12	Price vs Cost Estimate
SAP&13	Variances Between Costing Runs
SAP&14	List of Cost Estimates
SAP&COCKPIT	Costing Run

2

1. Select Layout for cost analysis. e.g., **"SAP&11"**
2. Press "Continue"

Costing Run: Analysis - Change Parameters

Variant Attributes

3

Selection

Costing Run 1

Costing Run ZFEEED01

Costing Date 24.12.2021

Plant

Costing Status

Output

Cost Component View 1 Cost of Goods Manufactured

Processing Opts

Background Processing

3. System displayed Costing Run: Analysis and default Costing Run and Costing Run Date

Press SAVE to save Parameter

# Cost Estimate with Quantity Structure

## CK40N – Create Costing Run: Marking (1/2)

AROUND



### Flow Step: **Marking – Allow Marking**

The screenshot displays the SAP CK40N 'Process' table and the 'Permitted std cost est variants' dialog. The 'Marking' flow step is highlighted with a red circle and a lock icon, labeled '1'. The 'Permitted std cost est variants' dialog shows a list of company codes and valuation views, with '1035' selected and labeled '2'. The 'Cstg Vrn Name' dialog shows 'ZPCA' selected, labeled '3'. The 'Marking' flow step is now unlocked, labeled '4'.

Flow Step	Authorization	Parameter	Execute	Log	Status	Materials	Errs	Still Open
Selection		▶▶						
Costing		▶▶						
Analysis		▶▶						
Marking		▶▶						
Release		▶▶						

Posting Period/Fiscal Year: 12 2021

Permitted std cost est variants (5)

Ex...	Company Code	Valuation View
●	0001	Legal Valuation
●	0003	Legal Valuation
■	1035	Legal Valuation
●	1037	Legal Valuation
●	1054	Legal Valuation

Cstg Vrn Name

ZPC9	BTG_Food Standard Cost
ZPCA	BTG-IB Standard Cost

Flow Step	Authorizati...	Parameter	Execute	Log	Status	Materials	Errs	Still Op...
Selection		▶▶	⬆					
Struct. Explosi...		▶▶	⬆					
Costing		▶▶	⬆					
Analysis		▶▶	⬆					
Marking		▶▶	⬆					
Release		▶▶	⬆					

1. Unlock "Marking" Click Company Code to Allow Marking
2. Select Costing Variant "ZPCA"
3. Press SAVE
4. After Allow Marking – Icon Unlocked

# Cost Estimate with Quantity Structure

CK40N – Create Costing Run: Marking (2/2)

AROUND



Flow Step: **Marking - Parameter**

*Price Update: Mark Standard Price*

A set of four small navigation icons: a blue square with a white plus sign, a green square with a white plus sign, a red square with a white plus sign, and a blue square with a white plus sign.

Processing Options

- Test Run **1**
- With List Output **2**
- Parallel Processing
- Background Processing

- 1. Test Run** to check the result and unselect when actual execution
- 2. With List Output** to display Log message from Mark Standard Cost

Press SAVE to save Parameter

# Cost Estimate with Quantity Structure

CK40N – Create Costing Run: Release

AROUND



Flow Step: **Release**

**Price Update: Release Standard Price**

Other Prices

Processing Options

- Test Run **1**
- With List Output **2**
- Parallel Processing
- Background Processing

- 1. Test Run** to check the result and unselect when actual execution
- 2. With List Output** to display Log message from Releas Standard Cost

Press SAVE to save Parameter

# Cost Estimate with Quantity Structure

## CK40N – Create Costing Run: Execution Steps

AROUND



### Costing Run Execution Steps

Process	Flow Step	Authorization	Parameter	Execute	Log	Status	Materials	Errs	Still Open
	Selection		▶▶▶	📄📄📄					
	Costing		▶▶▶	📄📄📄					
	Analysis		▶▶▶	📄📄📄					
	Marking	🔒	▶▶▶	📄📄📄					
	Release		▶▶▶	📄📄📄					

1. After finished set up Parameter for each Step. The icon Execution is ready to be executed.
2. The result of each step can display the Log by press button

Process	Flow Step	Authorization	Parameter	Execute	Log	Status	Material	Errs	Still Open
	Selection		▶▶▶	📄📄📄	📄	🟢	2	0	
	Costing		▶▶▶	📄📄📄		🟢	2	0	0
	Analysis		▶▶▶	📄📄📄		🟢			
	Marking	🔒	▶▶▶	📄📄📄					
	Release		▶▶▶	📄📄📄					

1. Create Material Cost Estimate with Quantity Structure
  - Material: A210101065 and A210104003
  - Costing Variant: ZPCA
  - Costing Date from: current date, Costing Date to: 31.12.9999
  - Plant: A9C1
  
2. Create Costing Run "KUT-##", Costing Run Date = Current date.
  - Costing Variant: ZPCA
  - Costing Date from: current date, Costing Date to: 31.12.9999
  - Material: A210101065 and A210104003
  - Plant: A9C1



**Course Overview**

**Cost Estimate with Quantity  
Structure Overview**

**Create Cost Estimate with Quantity  
Structure**

**Mark and Release Cost Estimate**

**Costing Run**

**Q&A**

???



