





Key User Training Document

PC102 - Cost Estimate with Quantity Structure

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Version: 1.0

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Course Information



Course ID	PC102
Course Description	Cost Estimate with Quantity Structure
Course Duration	4 hrs.
Course Pre-requisite	PC101
Course Objective	To understand concept of Cost Estimate with Quantity Structure

Course Information



Table of Content

(สารบัญ)

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



Course Outline





Course Overview

Cost Estimate with Quantity Structure Overview Create Cost Estimate with Quantity Structure

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Costing Run

Q&A

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







SAP Implementation Project



Module: Controlling



Course Overview Costing Variant

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	Yes
ZBG0	Budget V.0	Budget information	No
ZPC4	BTG_Simulate ForeCast	Simulation	No

Course Overview Costing Variant – **ZPCA**: Material Price Strategy



Priorit	y	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



Dis	play View "	Valuation Variants (Organizational-Unit-
60		
Valuatio	on 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

Course Overview Costing Variant – **ZBG0** : Budget V.0



Priorit	y	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	5

Price Update in	No
Material Master	NO

Course Overview Costing Variant – **ZPC4**: Material Price Strategy



riority	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	No
Material Master	INO

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Cost Estimate with Quantity Structure Cost Estimate with Quantity Structure Overview

Cost Estimate with Quantity Structure

AROUND

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



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

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Cost Estimate with Quantity Structure CK11N – Create Material Cost Estimate with Quantity Structure



Create Mate	erial Co	ost Estin	nate with	n Quant	tity Stru	Icture
🕒 🗞 4 🕨	Costing Str	ucture On	Detail List On	🚰 Hold	i 😃	
<u>Material</u> Plant	2	A <u>110201015</u> A9C1	1]
Costing Data	Dates	Qty Struct.				
<u>Costing Variant</u>	(A			
Costing Version		1				
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



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 valuated.

Press "ENTER" to continue.

	timate with Quantity Structure @ (승 😧) 을 해 삶 ! 최 컵 유 최 🌄 西 @ 💻		Create Material Cost Estimate
reate Material Cost 8	te with Quantity Structure		8. Click 📃 to save cost estimated
ଝିନ୍ମ 🕴 🕨 Costing Structure Off	Detail List Off 📓 Hold 👔 🕎		
	Material A110201015 Plant A9C1 Costing Data Dates Qty Struct. Valuation History	เมหาโกร 301(113) หมูหย่านม-25กก/30กก Costs	9. Update Parameters screen is pop Select the following option:
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III DL-METHIONINE 99% III L-THREONINE 98.5% IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1 Cost of Goods Manufactured	C C A Partner	C Update Parameters
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AXTRA PHY 10000 TPT2 CHOLINE CHLORIDE 609 WB+PE Balance 910 30kg	1 E 3500140115 PAC003 PFDPK3 2 E 3500140115 PAC003 PLD001 3 E 3300140115 PAC003 PF0EEL 4 E 3500140115 PAC003 POH001 5 M A9C1 W111200089 6 M A9C1 W011200089 9 6 M A9C1 W00000349	8310511004 0.31 8310510101 7.21 8310510100 0.00 8310550100 0.35 5101040000 173.47 5101020000 33.43	J0 USD 4 MIN J0 USD 4 MIN J0 USD 0.0 HR J0 USD 4 MIN J0 USD 4 MIN J0 USD 4 MIN J0 USD 4 MIN J0 USD 1,000 KG SFG J0 USD 13.3429 FC A900
		• 214.// •	
			✓

Cost Estimate with Quantity Structure

Cost Estimate with Quantity Structure CK13N - Display Cost Estimate with Quantity Structure AROUND

Display Material Cost Est	timate with Quantity Stru	icture						
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osting Structure	Plant A9C1	1						
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					JL_•			
	9 6 5 5.6.9.	i i						
	Cost Component View	Total Costs F	Fixed Costs	Variable Costs	Currency			
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	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	LISD			
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			N H H					
	Cost Components for Material A11020	1015						
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	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			-				
	50 Direct-Rental			Co	ost Co	mponen	t Viev	W
	60 Indirect-Rental					-		

Course Outline





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Cost Estimate with Quantity Structure Overview

Create Cost Estimate with Quantity Structure

Mark and Release Cost Estimate

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Mark and Release Cost Estimate

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.

AROUN

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 **<u>done once</u>** in a period
- Must not have Goods Movement in the period before release
- Release Cost Estimate <u>before</u> finish Material Ledger Period End Closing of Previous Period

Cost Estimate with Quantity Structure CK24 – Mark Cost Estimate (1/2)



Price Update: Mark Standard	d Prico	9				1. Posting Period/Fiscal Year 2. Company/Plant/Material
5 Posting Period/Fiscal Year		12 202		4	IngAllowance	3. Processing Options – Test Run
Company Code Plant Material	2)	1035 a9c1 A110201015	to to to			 With List Output to display Log 4. Marking Allowance กดปุ่ม "Markir Allowance" to allow Marking
						Price Update: Organizational Measure Posting Period/Fiscal Year 12 2021
Processing Options Test Run With List Output						Ex Company Code Valuation View Costing Version Released 0001 Legal Valuation 0003 Legal Valuation 1035 Legal Valuation 1037 Legal Valuation 1037 Legal Valuation 1054 Legal Valuation
Background Processing Background Processing						5. Execute to " Mark " Standard Cost of Material
Log created on 24.12.2021	ment					6. System displayed Log
Error Total 2 A T Material Plnt COE I	AppAr CK	MsgNo Message Text	* Summary : *****	******		

Cost Estimate with Quantity Structure CK24 – Mark Cost Estimate (2/2)

😕 Disp	olay Mate	rial A1102	201015 (Fé	ed)						
📫 🖒 Additional Da	ta 🔒 Org. L	evels								
Costing 1	Costing 2	Plant stock	Stor. loc. stck	WM E	Execution	WM Packaging	Seg.	Valuation Data		
Material	A110201015									
Descr.	เบทาโกร 301(I13) หมูหย่านม-2	5กก/30กก							
Plant	A9C1 B	GC-Feed mill								
Standard Cost Esti	imate									
Cost Estimate			Future			Current		Previ	ous	
Period / Fiscal Yea	ar	12	2021		11	2021	_	0		
Planned Price	Additional Data Additional Data Costing 1 Costing 1 Alino201015 Alino201015 Alino301(Ant A9C1 E Andard Cost Estimate Cost Esti			0.78				0.00		
Standard price					0.78					
Planned prices										
Planned price 1		0.01		Planned	l price date	1	01.10	.2021		
Planned price 2		0.00		Planned price date 2						
Planned price 3		0.00		Planned	l price date	3				
Valuation Data										
Valuation Class		AF01		V	aluation Cate	egory				
VC: Sales order st	k			Pi	oj. stk val.	class				
Price control		S		C	urrent period	ł		12 2021		
Price unit		1		C	urrency			USD		
Moving price		0.00		St	andard price	e		0.78		

CK24 - Release Cost Estimate (1/2)

0

Plant

Material





Cost Estimate with Quantity Structure CK24 – Release Cost Estimate (2/2)

🖳 Disp	olay Mater	rial A11020	01015 (Fe	eed)					
🖞 📫 Additional Dat	ta 🛛 🔒 Org. Le	vels							
Costing 1	Costing 2	Plant stock	Stor. loc. stck	WM Ex	ecution	WM Packaging	Se	g. Valuation Data	4
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viateriai	A110201015	(2) 25	/20						
Descr.	เบทาเกร 301(1	13) หมูหยานม-25ก	ก/ 30กก						
Plant	A9C1 BC	GC-Feed mill							
Standard Cost Esti	mate								
Cost Estimate	mucc		Future			Current		Drouio	
Doriod / Fiscal Voa	ar.		Tuture		12	2021		11 2021	us
Penou / Tiscai Tea	21	0.00			0.21	2021		0.78	
Standard price		0.00			0.21		-	0.76	
Standard price					0.21				
Planned prices									
Planned price 1		0.01		Planned p	orice date	1	01.1	.0.2021	
Planned price 2		0.00		Planned p	orice date	2			
Planned price 3		0.00		Planned price date 3					
Valuation Data									
Valuation Class		AF01		Valu	uation Cate	egory			
VC: Sales order st	k			Pro	j. stk val.	class			
Price control		S		Cur	rent period			12 2021	
Price unit		1		Cur	rency			USD	
Moving price		0.00		Cha	adard price			0.21	

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Cost Estimate with Quantity Structure Overview Create Cost Estimate with Quantity

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Structure

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Cost Estimate with Quantity Structure Costing Run





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

CK40N – Create Costing Run: Costing Data

	匠 <u>C</u> osting Run <u>E</u> dit <u>G</u> oto <u>S</u> ettings System <u>H</u> elp	
Costing Run Costing Run Costing Run Costing Run Date Costing Variant Costing Variant Costing Run Costing Variant Costing V	🕑 🔄 🔹 🕄 😓 😓 😓 🔚 👘 👘 🛱 🕮	
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Costing Variant ZPC1 2 Create Costing Run Create with Reference 2 2 41221 Costing Run Zfeed01 Description 3 A9c1 Std Cost Estimate Costing Run Date 241221 Costing Variant ZPCA 5	Costing Run Description Costing Run Date	
Costing Variant ZPC1 2 Create Costing Run Create with Reference 2 2 Costing Run Zfeed01 Description 3 A9c1 Std Cost Estimate Costing Run Date 241221 Costing Variant ZPCA 5 Costing Variant	Costing data	
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Costing Run Zfeed01 Description 3 A9c1 Std Cost Estimate Costing Run Date 241221	Create Costing Run	
Costing Run Zfeed01 Description Area RTGg	Create with Reference 🤣 🗿 🛅	4
Costing Run Date 241221 Costing data Costing Variant ZPCA Costing Version 1 Controlling Area RTGg	Costing Run Zfeed01 Description A9c1 Std Cost Es	tima
Costing data Costing Variant ZPCA Costing Version Controlling Area BTGg	Costing Run Date 241221	
Costing Variant ZPCA Costing Version 1 Controlling Area BTGg	Costing data	
Company Code 1035 Transfer Control	Costing VariantZPCACosting Version1Controlling AreaBTGgCompany Code1035Transfer ControlI	



- 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 Code
 Press ENTER

CK40N – Create Costing Run: Dates

🖻 Create	Costing Run				
Ø	•			1) 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P
Create C	osting Run	\smile			
Create	with Reference 🛛 😚	🔁 🛅			
Costing Run		ZFEED01	Description	A9c1	. Std Cost Estimation
Costing Run Da	e	24.12.2021			
Costi	ng data Dates	Valuation Repeat	t		
Costing	Date From	24.12.20	21	Posting Period	1 2022
Costing	Date To	31.12.99	99 6)	
Qty Stru Valuation	cture Date 1 Date	24.12.20 24.12.20	21 21		

Process 8									
Flow Step	Authorization	Parameter	Execute	Log	Status	Materials	Errs	Still Open	
Selection		þæþ							
Costing		þæþ							
Analysis		þæþ							
Marking	<u> </u>	þæþ							
Release		þæþ							

Tab "Dates"

6.

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

AROUND

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 valuated.

- 7. Press SAVE
- 8. System display "Flow Step". Select Parameter in each step.

CK40N – Create Costing Run: Selection

Flow Step: Selection

E Costing Run: Selection - Change Pa	arameters		
	n m 1992 1915	n 🕜 🖳	
Costing Run: Selection - Change Par	rameters		
Variant Attributes) 🗐 🔚			
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			
$\mathbf{}$			
Processing Opts			
Background Processing			
Print Log			

- 1. Input Selection criteria
- 2. Select "Explode Multilevel Structure" เพื่อ Run Standard Cost ดาม BOM

AROUND

3. Unselect "Background Processing"

Press SAVE to save Parameter

CK40N – Create Costing Run: Costing

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

CK40N – Create Costing Run: Analysis

Flow Step: Analysis

Choose Reference of the second	rence for Selection Parameter For Program RKKBCAL2 Short Description Results of Costing Run Price vs Cost Estimate Variances Between Costing Runs List of Cost Estimates Costing Run	X	 Select Layout for "SAP&11" Press "Continue" 	cost analysis. e.g.,
			Costing Run: Analysis - Change	Parameters
			Variant Attributes 🖽	
			Selection	
		2	Costing Run Costing Date	Costing Run 1 ZFEED01 24.12.2021
3. Syste Analy	m displayed Costing Run: sis and default ชื่อ Costing Run		Plant Costing Status	
and C	Sosting Run Date		Output	
			Cost Component View	1 Cost of Goods Manufactured
Press SA	VE to save Parameter		Processing Opts	
			Background Processing	

Cost Estimate with Quantity Structure CK40N – Create Costing Run: Marking (1/2)



Flow Step: Marking – Allow Marking

Flow Step Authorization Parameter Execute Log Status Materials Errs Still Open 1. U Selection Pab Analysis Pab Marking Pab Release Pab Posting Period/Fiscal Year 12 2001 2 Legal Valuation Excute Log Status Materials Errs Still Open 0001 2 Legal Valuation Excute Log Status Materials Errs Still Open 1035 Legal Valuation 0003 Legal Valuation 1037 Legal Valuation 1037 Legal Valuation Selection Struct Explosi Costing Analysis Marking Pab Marking Pab Pab Pab Pab Pab Pab Pab Pab Pab	Process	-		-					_							
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- 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	
🚸 🔁 🔁 🖶	
Processing Options	
✓ Test Run 1	
With List Output	
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

CK40N – Create Costing Run: Release

Flow Step: Release

Price Update: Release Standard Price
🚸 📴 🔁 🛟 Other Prices
Processing Options
V Test Run (1) With List Output (2)
Parallel Processing
Background Processing

1. Test Run to check the result and unselect when actual execution

AROUNE

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

Costing Run Execution Steps

Process									
Flow Step	Authorization	Paramete	Execute	Log	Status	Materials	Errs	Still Open	
Selection		¢⊞¢	æ						
Costing		¢⊡¢	æ						
Analysis		¢⊞¢	æ	(1)				
Marking	6	¢⊞¢			\smile				
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

						6				
Process					(2)					
Flow Step	Authorization	Parame	Execut	e Log	Status	Materi	Errs	Still Open		
Selection		ÞEÞ	- 🚱	5		2	0			
Costing		ÞEÞ	- 🚱			2	0	0		
Analysis		ÞEÞ	- 🚱							
Marking	<u> </u>	ÞØÞ	- 🚱							
Release		Þæþ	- E							
			L L							



Costing Exercise



- 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 Outline





Course Overview

Cost Estimate with Quantity Structure Overview

Create Cost Estimate with Quantity Structure

Mark and Release Cost Estimate

Costing Run

Q&A

Q&A





Exercise and Test



