Business Central Introduction

Applying Item Ledger Entries

(ERP=Microsoft Dynamics 365 Business Central)

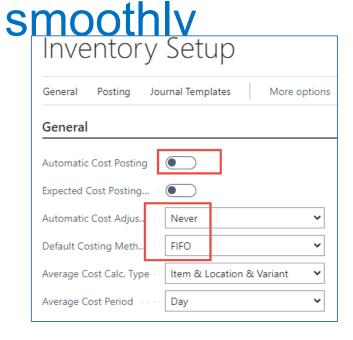
Miki Skorkovský

Navertica | Masaryk University

Basic principles of Applying

- 1. Purchase of 10 items xxx at cost 10 at time t
- 2. Purchase of 10 items of items xxx at cost 20 at time t+1D (later)
- 3. Selling 12 items of items xxx at time t+2D
- 4. Cost of Good Sold = $10 \times 10 + 2 \times 20 = 140$ applied (balanced) according to FIFO principle
- 5. FIFO applying of item ledger entries is carried out as in Costing Method =FIFO and in Costing Method =Average

The settings that allow the example to run



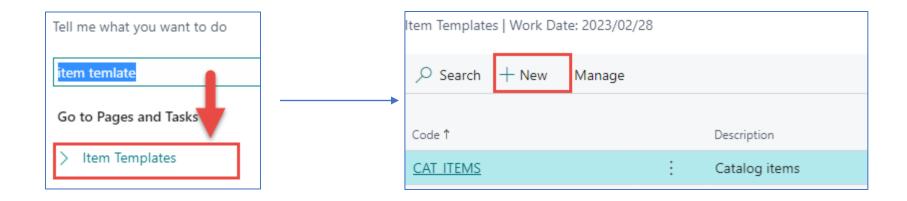
Cost adjustment will be processed manually

Specifies if value entries are automatically posted to the inventory account, adjustment account, and COGS account in the general ledger when an item transaction is posted.

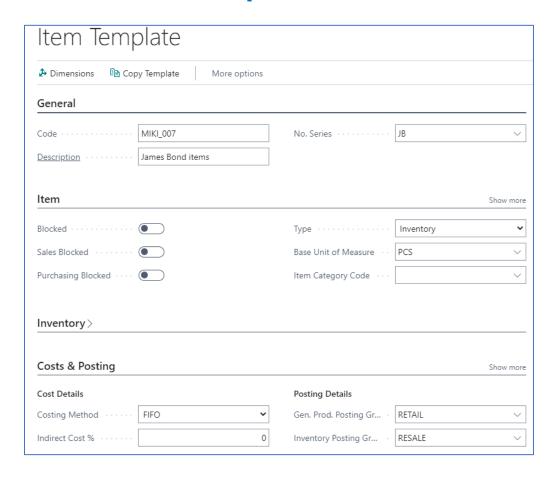
Alternatively, you can manually post the values at regular intervals with the Post Inventory Cost to G/L batch job.

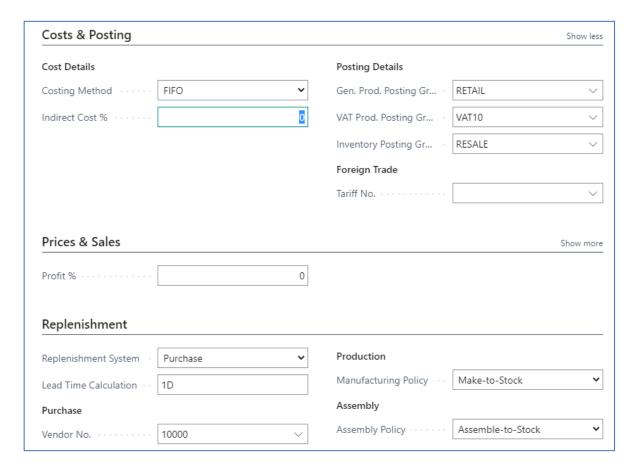
Note that costs must be adjusted before posting to the general ledger.

New item template to create new item



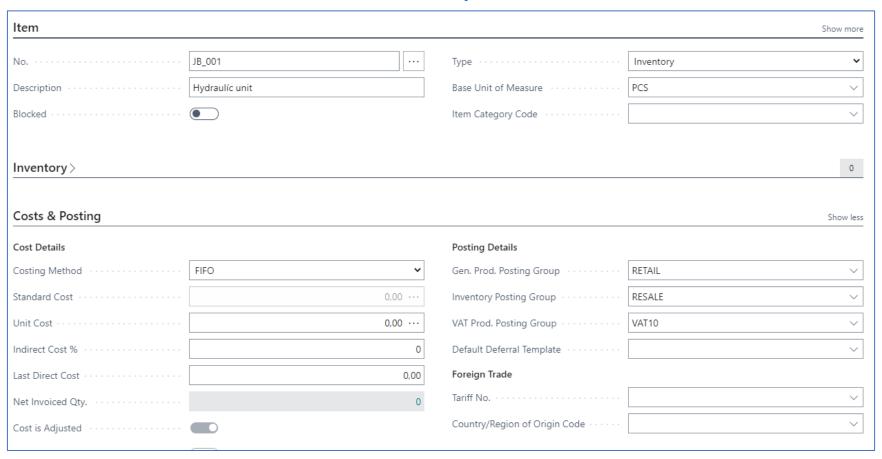
Item template (Creation would be part of the course)





New item created

Item -list->New->selected template-> OK-> Unit Price = 40



Two purchase orders (only purchase line shown before posting by F9)

Lines	Manage Mo	re options										
Туре		No.	Item Reference	Description	Location Code	Bin Code	(Quantity	Reserved Quantity	Unit of Measure Code	Direct Unit Cost Excl. VAT	Line Amount Excl. VAT
\rightarrow Item	:	JB_001		Hydraulíc unit	BLUE			10	_	PCS	10,00	100,00

Lines Manage M	lore options									
Туре	No.	Item Reference No.	Description	Location Code	Bin Code	Quantity	Reserved Quantity	Unit of Measure Code	Direct Unit Cost Excl. VAT	Line Amount Excl. VAT
→ Item	JB_001		Hydraulíc unit	BLUE		10	_	PCS	20	100,00

2 x F9

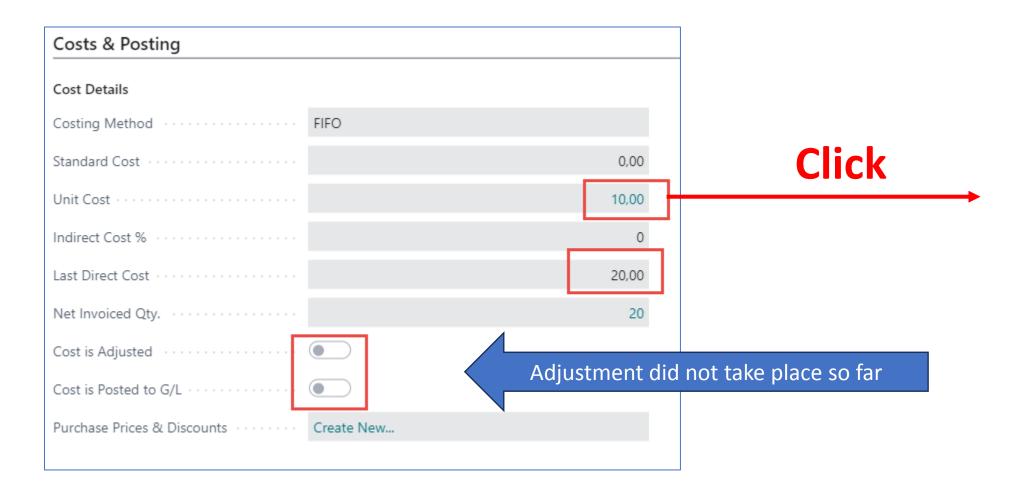
See next slide

It could be replaced by item journal as well

Item ledger entries

	Document Type	Document No.	Item No. 🔻	Descrip	Departm Code	Proj Code	Location Code	Serial No.	Lot No.	Expiration Date	Quantity	Invoiced Quantity	Remaining Quantity	Sales Amount (Actual)	Cost Amount (Actual)
Purchase Possint 107187 IR 001 PILIE 10 10 10 000 11	Purchase Receipt	107188	<u>JB_001</u>				BLUE	_	_		10	10	10	0,00	200,00
Fulchase Receipt 10/10/ 35_001	Purchase Receipt	107187	JB_001				BLUE	_	_		10	10	10	0,00	100,00

Costs and Posting



Average cost calculation overview after Purchases only



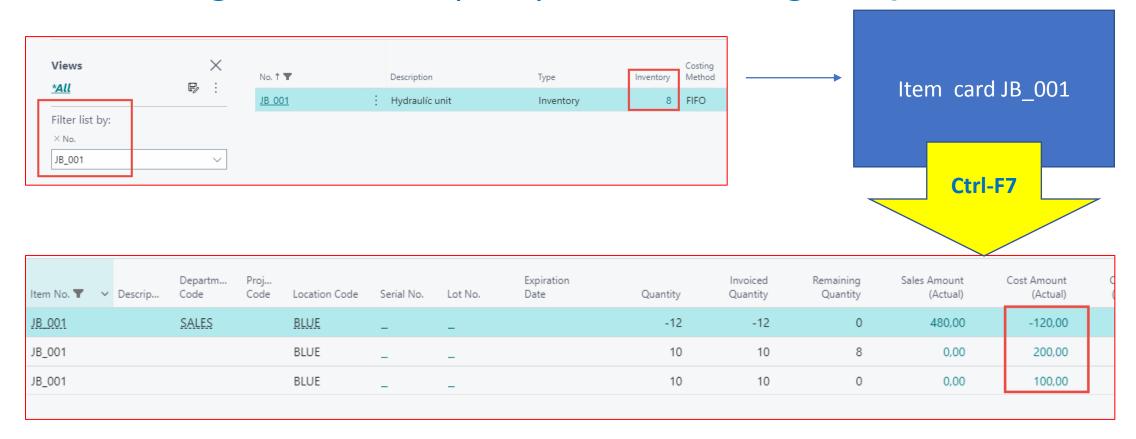
10 x 10 a 10 x 20 = 300 and 300/20=15

Selling 12 pcs of our model item (only sales lines shown partly)

Mana	ige	Line	Order	NVR CBL Serv	rice Few	er options									
			Assembly Order No.	Purchasing Code	Special Order	Location Code	Quanti	Applto Item y Entry	Qty. to Assemble to Order	Reserved Quantity	Applfrom Item Entry	Unit of Measure Code	Unit Price Excl. VAT	Line Discount %	Line Amount Excl. VAT
						BLUE		2 0	_	_	0	PCS	40,00		480,00
								_							
											T				
											•				

Push F9 to post Sales order

Item ledger entries (ILE) after selling 12 pcs



Cost actual = $120=10 \times 10 + 2 \times 10$ and it's supposed to be **140**= $10 \times 10 + 2 \times 20$

1st ILE 2nd ILE

Average cost calculation overview after subsequent selling of 12 pcs

Туре		Valuation Date	Item No.	Unit Cost	Cost is Adjusted	Entry Type	Quantity	Cost Amount (Expected)	Cost Amount (Actual)
Closing Entry		2023/02/28	<u>JB_001</u>	22,50			8	0,00	180,00
Increase	:	2023/02/28	<u>JB_001</u>	10,00		Purchase	10	0,00	100,00
Increase		2023/02/28	JB_001	20,00		Purchase	10	0,00	200,00
Decrease		2023/02/28	JB_001	10,00		Sale	-12	0,00	-120,00

100+200=300 = original cost after two purchases

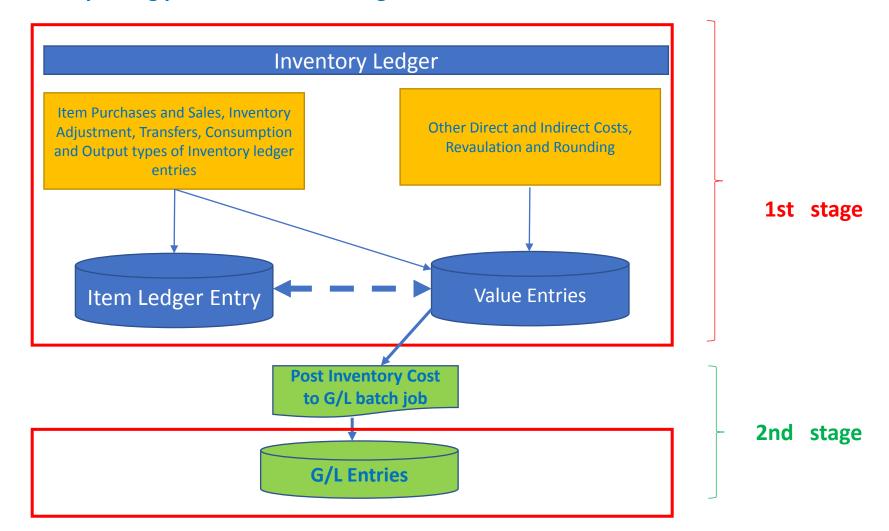
300-12x10=180 = new cost after selling 12 pcs (used average cost)

180/8=22,50 = average cost after selling 12 pcs

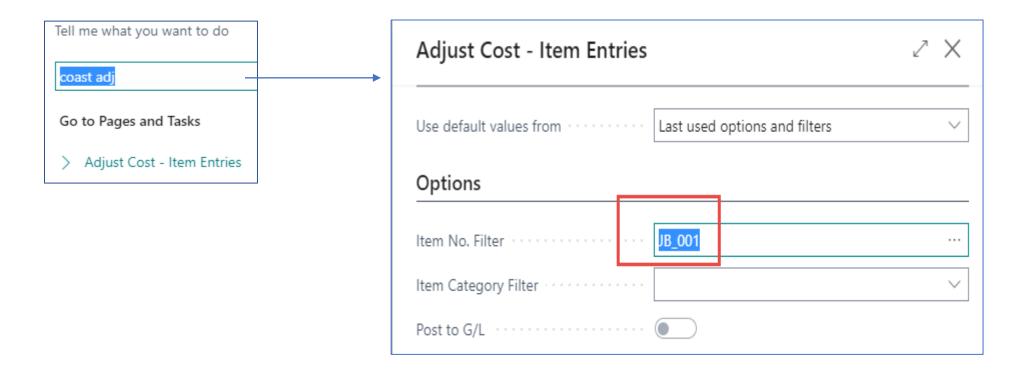
10+10-12 = 8

Inventory Cost Adjustment principles

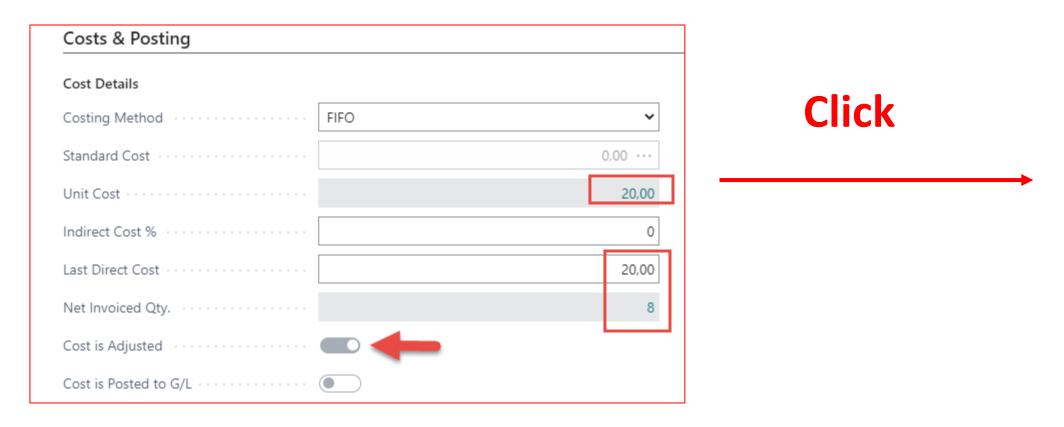
The posting process takes two stages



Manual cost adjustment 1st stage



Item card after cost adjustment



The second item (same number) was purchased for 20 and has not yet been balanced by other sales

Item card after cost adjustment

Edit - A	dit - Average Cost Calc. Overview - JB_001 Hydraulíc unit												
∠ Sear	ch 🛕 Find entries	More opti	ions							臣			
3	₹ Type	~	Valuation Date	Item No.	Unit Cost	Cost is Adjusted	Entry Type	Quantity	Cost Amount (Expected)	Cost Amount (Actual)			
\rightarrow	Closing Entry	:	2023/02/28	JB_001	20,00	✓		8	0,00	160,00			
	Increase		2023/02/28	JB_001	10,00		Purchase	10	0,00	100,00			
	Increase		2023/02/28	JB_001	20,00		Purchase	10	0,00	200,00			
	Decrease		2023/02/28	JB_001	11,67		Sale	-12	0,00	-140,00			

100+200=300 = original cost after two purchases

300-(10x10 + 2x20) = 300-140 = 160 = after new cost adjustment

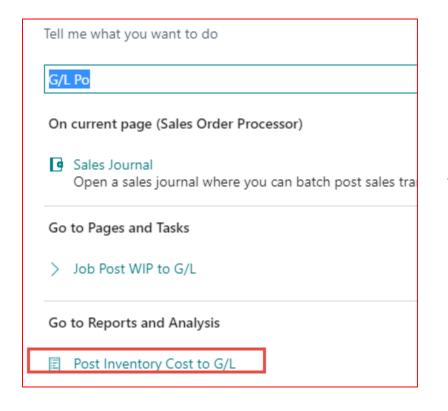
160/8 = 20 = new cost

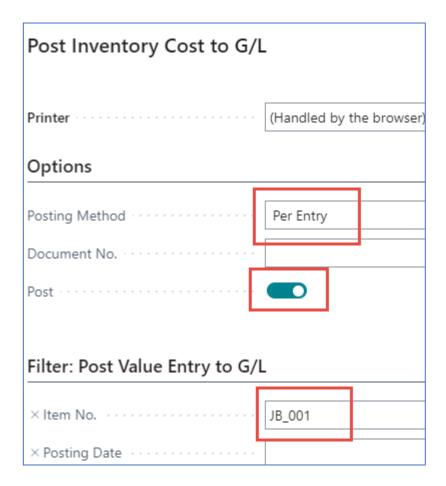
Cost of Good Sold = $\frac{140}{12}$ =11,67 per one pc of JB_001



The sale was carried out for this amount

Posting inventory cost to General Ledger

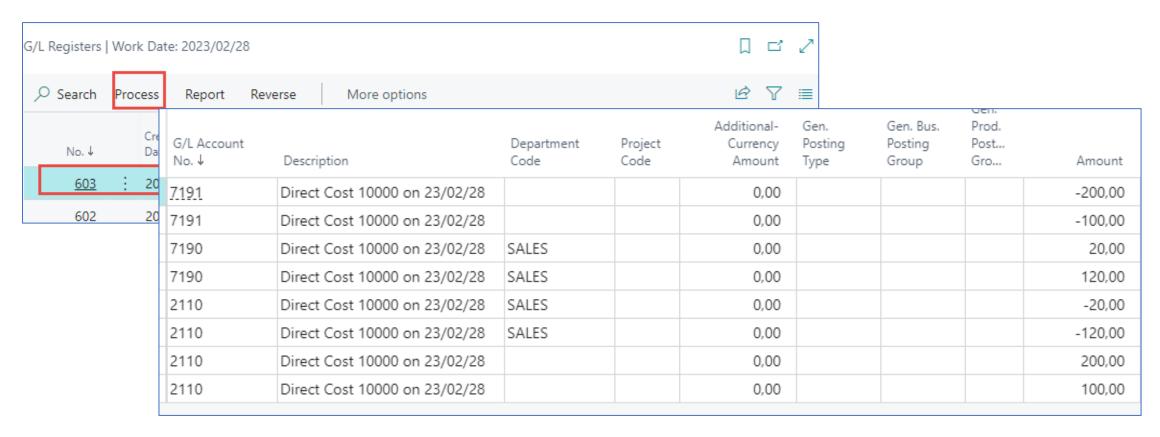




Results

Posted pe	ventory Cost to Coer er Entry International	à/L												Thursday, 09 Fe	ebruary 202 Page NAVERTIC
/alue Ent Entry No. tem	try: Item No.: JB_00 Item Ledger Entry Type	Document	Source No.	Inventory Posting Group	Posting Date	cogs	Inventory Adjustment	Direct Cost Applie d	Overhead Applied	Purchase Variance	Mfg. Direct Cost Variance	Manufacturi ng Ovhd Variance	WIP Inventory	Inventory	Expected Jost
	JB_001	Hydraulic unit													
1178	Purchase	108158	10000	RESALE	23/02/28			-100,00						100,00	No
1179	Purchase	108159	10000	RESALE	23/02/28			-200,00						200,00	No
1180	Sale	103211	10000	RESALE	23/02/28	120,00								-120,00	No
1181	Sale	103211	10000	RESALE	23/02/28	20,00								-20,00	No
Inventory Cost Posted to G/L					140,00		-300,00						160,00		

G/L Registers->Archive

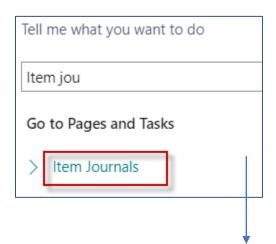


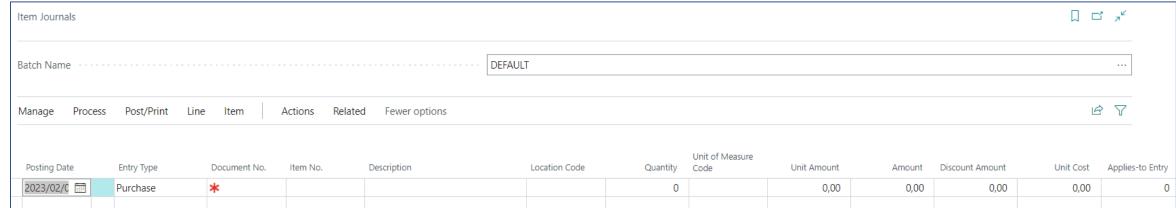
Item card

Cost Details	
Cost Details	
Costing Method · · · · · FIFO	
Standard Cost · · · · · · · · · · · · · · · · · · ·	0,00 ·
Unit Cost · · · · · · · · · · · · · · · · · · ·	20,0
Indirect Cost % · · · · · · · · ·	
Last Direct Cost · · · · · · · · · ·	20,0
Net Invoiced Qty.	
Cost is Adjusted · · · · · · · · · · · · ·	
Cost is Posted to G/L · · · · · · · · · · ·	
Purchase Prices & Discounts · · · · · Create New	

Another example (use of item journals)

Access to Item Journal





Applying Item Ledger Entries

 Purchase of the brand new item by use of item journal with different Cost Amounts

Posting Date	Е	Entry Type	Document No.	Item No.	Description	Location Code	Quantity	Unit of Measure Code	Unit Amount	Amount	Discount Amount	Unit Cost
2/1/2022	Р	urchase	T00006	80101	15" 1501 FP Flat Panel	BLUE	10	PCS	12.00	120.00	0.00	12.00
2/1/2022	Р	urchase	T00006	80101	15" 1501 FP Flat Panel	BLUE	10	PCS	14.00	140.00	0.00	14.00

Locati...

Code

BLUE

BLUE

10

10

10

10

Preparation of data for modelling the applying of item ledger entries with different acquisition costs

Item No. T

80101

80101

More options

Descri...

Open in Excel

Document

T00006

T00006

Item Ledger Entries

Posting Date

2/1/2022

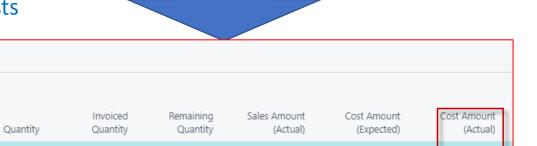
2/1/2022

Search Entry

Entry Type

Purchase

Purchase



0.00

0.00

0.00

0.00

140.00

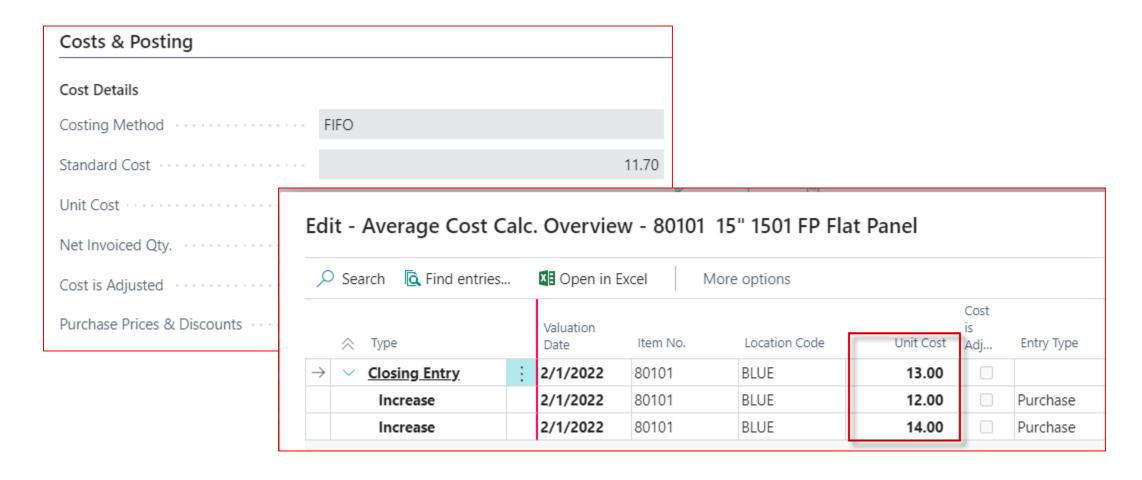
120.00

F9

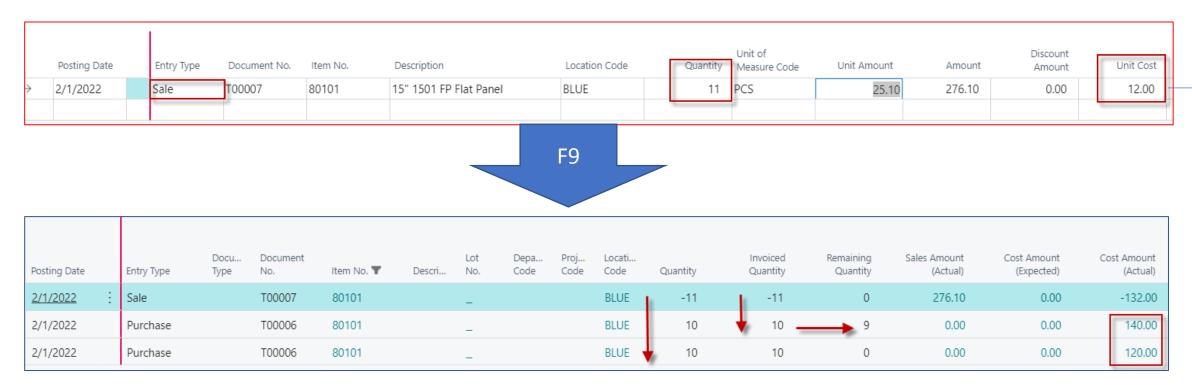
10

10

Item card and average cost calculation overview



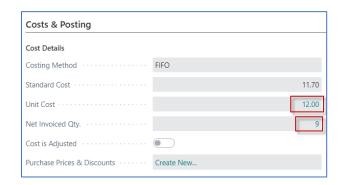
Selling 11 pcs of our item 80101 by Item journal



Cost of 20 pcs = $(10 \times 14) + (10 \times 12) = 120 = 260$

FIFO principle od applying : 260 - 10x12 - 1x14 = 126 -> Average cost should be = 126/9=14 but see next slide BC calculated cost as 11*12=132.

Item card and average cost calculation overview



It must be adjusted by use of adjust cost-item entries batch job!

Unit Cost	Cost is Adjusted	Entry Type	Quantity	Cost Amount (Expected)	Cost Amount (Actual)
14.22			9	0.00	128.00
12.00		Purchase	10	0.00	120.00
14.00		Purchase	10	0.00	140.00
12.00		Sale	-11	0.00	-132.00

260-132=128 128/9=14,22 !!!

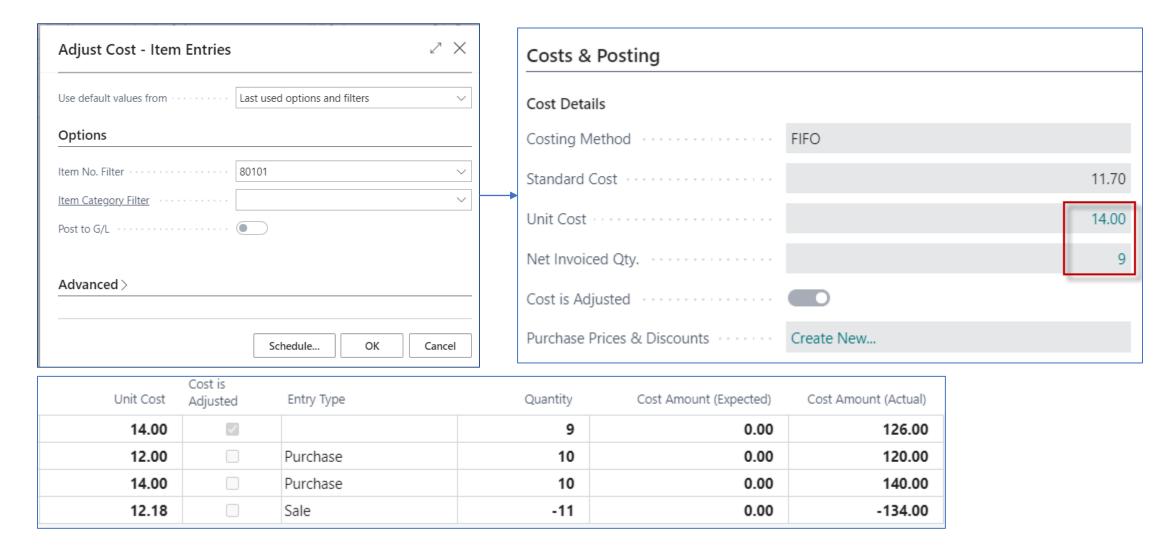
Cost of 20 pcs = 140 + 120 = 260 (see previous slide)

FIFO principle: 260 - 10x12 - 1x14 = 126 -Average cost should be = 126/9 = 14

BC calculated cost as 11*12=132.

discrepancy

Adjust cost - item entries (manually)



Nulla dies sine gaudium!!!

I SEE A TOY! CAN YOU GO GET THAT TOY? AT THE HUGGIES DIAPER TESTING FACILITY

End of Business Central introduction IV