# SAP ERP Lab: CO-PC 模組操作練習(1)

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● CO-PC 模組的交易範例: (取材自 SAP GBIKE 1809 教材第八章 CO 模組)



本交易範例的9個步驟,會分別使用到 MM 模組(步驟 1、2、7、9)、生產(Production)模組(步驟 3、4、6、8)及 CO-PC 模組(步驟 5)的功能。

● 步驟 1: Create Variant Finished Good for Product Costing (創建新的製成品主數據)

角色扮演:GBI公司的生產數據管理員(Production Data Administrator): Jermain Kumins 任務情境:以複製現有資料的方式創建一款新自行車的主數據,後續步驟將為此款新車進行產品 成本估算

 請使用自己的帳號、密碼登入 SAP 系統,在[Enter transaction code or command]欄中輸入 MMF1 這個交易代碼(T-code)。按[Enter]。(或從以下路徑進入: Logistics => Materials Management => Material Master => Material => Create (Special) => Finished Product)

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Material type:	Finished Product	~	
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系統帶出 Create Material (Initial Screen)視窗如下:

 在 Material 欄位輸入【DXTR4###】(###是同學 SAP 帳號後 3 碼), Industry Sector 欄位選擇 【Mechanical Engineering】, Material type 欄位是預設的【Finished Product】。下方 Copy from...中的 Material 欄位輸入【DXTR1###】(###是 SAP 帳號後 3 碼)。如下圖:

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Industry Sector:	Mechanical engineering	~	
Material type:	Finished Product	~	
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	MRP 2	
	MRP 3	
	MRP 4	
	Advanced Planning	
	Forecasting	
	Work Scheduling	
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在視窗中勾選 Basic Data 1、Basic Data 2、Accounting 1、Accounting 2、Costing 1 及 Costing 2。並確認已勾選 Create views selected。如下圖(請留意 Basic Data 1 因卷軸關係未呈現在畫面內):

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勾選好後,點按視窗下方的綠色勾號[V]。系統帶出 Organizational Levels 視窗:

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Plant:	
Org. levels/profiles only on r	equest
	🖋 Select View(s) 🖫 Default Setting 💥

 在視窗左側 Organizational levels 的 Plant 欄位中選擇代表 Plant Dallas 的【DL00】,右側 Copy from 欄位內也選擇或輸入【DL00】。如下圖:

E Org	tional Levels	×
Organizational levels	Copy from	
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點按視窗下方的**綠色勾號[V]**。系統帶出 Create Material DXTR4###視窗(###是 SAP 帳號後 3 碼):

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Division	BI Lab/Office:	
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5. 在 Basic data 1 頁籤中,把 Descr.欄位的值從【Deluxe Touring Bike (black)】改為【Deluxe Touring Bike (white)】,如下圖:

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Material:	DXTR4201				Ĩ	0
* Descr.;	Deluxe Touring Bi	ke (white)			68	
General Data						
* Bas	e Unit of Measure:	EA each	Material Group:	BIKES		
OI	d material number:		Ext. Matl Group:			
	Division:	BI	Lab/Office:			
3	Product allocation:		Prod.hierarchy;			\$
						Save

按頁籤最右方的>以開展畫面上未顯示的頁籤,切換至 Accounting 1 頁籤,在 Standard Price

< SAP		Create Material DXTR4201	
$\rightarrow$ Additional Data	Org. Levels 🐴 Check Scr	reen Data 🔒 More 🗸	Ex
Quality management 🛛 🕭 /	accounting 1 📑 Accourt	nting 2 👼 Costing 1 👼 Costing 2 WM Execution WM Packaging Seg. Valuation Data	
Material: DXTR4201			
* Descr.: Deluxe Touring	Bike (white)	68 🚺	
Plant: DL00 Plan	it Dallas		
riod 2024/004 Period 2024/00	3 Period 2023/012		
General Valuation Data			
mate t			
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Division:	31	Valuation Cat.:	
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rices and values			
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	Company code currency		
Standard Price:	1,400,00		
Standard Price: Price Unit:	1,400.00		
Standard Price: Price Unit: * Prr. Ctrl-	1,400.00		
Standard Price: Price Unit: * Prc. Ctdl: Inventory, Volue:	1,400.00 1 S	in the second	

欄位輸入【1400】(按[Enter]後顯示為 1,400.00),如下圖:

6. 輸入完成後,按下視窗右下方的[Save],視窗左下方顯示 DXTR4###這個製成品主數據已創 建完成(Material DXTR4### created)的訊息:

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Material:			
Industry Sector:	Mechanical engineering	$\sim$	
Material type:	Finished Product	~	
Change Number:			
lopy from			
	וחכוקדיים		
Material:	DAIRI201		

7. 以上為步驟 1。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。

#### ● 步驟 2: Create Variant Raw Material for Product Costing (建立新的原物料主數據)

角色扮演:GBI公司的生產數據管理員(Production Data Administrator): Jermain Kumins 任務情境:以複製現有資料的方式為一個新的白色車架創建原物料主數據

 接續步驟 2,(若完成步驟 2後已下線,請使用自己的帳號、密碼重新登入 SAP 系統),在 [Enter transaction code or command]欄中輸入 MMR1 這個交易代碼。按[Enter]。(或從以下路 徑進入: Logistics => Materials Management => Material Master => Material => Create (Special) => Raw Material)

=	SAP Business Client	_ 🗆 ×
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Select View(s) Org. Lev	els Data More $arphi$	Exit
Material:		ব
Industry Sector:	Mechanical engineering	~
Material type:	Raw materials	~
Change Number:		
Copy from		
Material;	DXTR1201	
-		
		Continue

系統帶出 Create Material (Initial Screen) 視窗如下:

 在 Material 欄位輸入【TRFR4###】(###是 SAP 帳號後 3 碼), Industry Sector 欄位選擇 【Mechanical Engineering】, Material type 欄位是預設的【Raw materials】。下方 Copy from... 中的 Material 欄位輸入【TRFR1###】(###是 SAP 帳號後 3 碼)。如下圖:

	SAF	Business Client		_ 🗆 ×
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🔚 ★ Enter transactio	n code or command			٩ 🗆
< SAP	Create Ma	aterial (Initial Screen)		
Select View(s) Org. Lev	els Data More $\sim$			Exit
Material:	TRFR4201			
Industry Sector:	Mechanical engineering		~	
Material type:	Raw materials		~	
Change Number:				
Copy from				
Material:	TRFR1201			
				Continue

點按視窗右下方的[Continue]。系統帶出 Select View(s)視窗:

≡	Selec	t View(s)	)		×
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	Basic Data 1			0	
	Basic Data 2				
	Sales: Sales Org. Data 1				
	Sales: Sales Org. Data 2				
	Sales: General/Plant Data				
	International Trade: Export				
	Sales Text				
	Purchasing				
	International Trade: Import				
	Purchase Order Text				
	MRP 1				
	MRP 2				
	MRP 3				
	MRP 4				
	Advanced Planning				
	Forecasting				
	General Plant Data / Storage 1				
	General Plant Data / Storage 2				
	Warehouse Management 1				
	Warehouse Management 2				
	Quality Management				
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	View selection only on request				
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-	and a second of the AM ALM. MARKING MARKS				
					-
	🛷 Org. Levels	Data		🖫 Default Settin	g 🔀

在視窗中勾選 Basic Data 1、Basic Data 2、Accounting 1、Accounting 2、Costing 1 及 Costing 2。並確認已勾選 Create views selected。如下圖(請留意 Basic Data 1 及 Basic Data 2 因卷軸關 係未呈現在畫面內):



勾選好後,點按視窗下方的緣色勾號[V]。系統帶出 Organizational Levels 視窗:

Organizational Levels							
Organizational levels	Copy from						
Org. levels/profiles only on reque	ust.						
	🖋 Select View(s) 🖫 Default Setting	×					

 在視窗左側 Organizational levels 的 Plant 欄位中選擇代表 Plant Dallas 的【DL00】,右側 Copy from 欄位內也選擇或輸入【DL00】。如下圖:

Organizational Levels								
Organizational levels		Co	py from					
Plant: DL00		1	DL00 Q					
Org. levels/profiles only on reques	st							
	V	Select View(s)	🖫 Default Setting	×				

點按視窗下方的**綠色勾號[V]**。系統帶出 Create Material TRFR4###視窗(###是 SAP 帳號後 3 碼):

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Enter transaction code or	command				۹ 🗆
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[중] → Additional Data 🖁 🤇	rg. Levels 🏻 🖞 Check Screen	Data 🔒 More 🗸			Exit
👼 Basic data 1 📑 Basic da	a 2 Sales: sales org. 1	Sales: sales org. 2	Sales: General/Plant	Intl Trade: Export	Sa >
Material: TRFR4201				i	0
* Descr.; Touring Frame-Bla	·k			69 🚹	- 11
Jeneral Data * Base Unit of Measure:	EA each	Material Group	RAW		
Old material number:		Ext. Matl Group			
Division:	BI	Lab/Office	u		
Product allocation:					
X-Plant Matl Status:		Valid from	1:		
Assign effect, vals:		GenItemCatGroup	: UUUI Make-to-orde	r	
daterial authorization group					
material autorization group					\$
					Save

5. 在 Basic data 1 頁籤中,把 Descr.欄位的值從【Touring Frame-Black】改為【Touring Frame-White】,如下圖:

E Create Material TRFR4201	F	SAP Business Client			_ 🗆 ×
Enter transaction code or	command				٩ 🗉
< SAP	Cre	eate Material TRFR4201			
ি≩ → Additional Data 🖁 🤇	Drg. Levels n 🍄 Check Screen	Data 🔒 More 🗸			Exit
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Material: TRFR4201				i	÷
* Descr.: Touring Frame-Wh	ite			68 🚺	_
General Data					- 1
* Base Unit of Measure:	EA each	Material Group	RAW		- 1
Old material number:		Ext. Matl Group			
Division:	BI	Lab/Office	:		
Product allocation:					
A-Plant Mail Status:		Valid from			
Histigh black, vals,		Gennenicaroioup	. 0001 Make-to-olde	21	
Material authorization group					^
					~
					Save

6. 輸入完成後,按下視窗右下方的[Save],視窗左下方顯示 TRFR4###這個原物料主數據已創 建完成(Material TRFR4### created)的訊息:

	SAP Business Client	_ 🗆 ×
Enter transactio	n code or command	٩ 🔳
< SAP	Create Material (Initial Screen)	
Select View(s) Org. Lev	rels Data More 🗸	Exit
Material:		]
Industry Sector:	Mechanical engineering $\sim$	
Material type:	Raw materials ~	
Change Number:		
Copy from		
Material:	TRFR1201	
Material TRER4201 cre	rated	Continue
		Containte

7. 以上為步驟 2。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。

## ● 步驟 3: Create Bill of Material for Product Costing (建立用料清單)

角色扮演:GBI公司的生產數據管理員(Production Data Administrator): Jermain Kumins 任務情境:以複製現有資料的方式為步驟1創建的新自行車建立用料清單(BOM) 名詞解析:用料清單(BOM)詳列生產一項產品所需的零組件名稱及數量

 接續步驟 2,(若完成步驟 2 後已下線,請使用自己的帳號、密碼重新登入 SAP 系統),在 [Enter transaction code or command]欄中輸入 CS01 這個交易代碼。按[Enter]。(或從以下路徑 進入: Logistics => Production => Master Data => Bills of Material => Bill of Material => Material BOM => Create)

系統帶出 Create material BOM: Initial Screen 視窗如下:

SAP Business Client	_ 🗆 ×
Create material BOM: Init + 000	
Enter transaction code or command	۹ 🔳
Create material BOM: Initial Screen	
∰ _ Create variant of More ∨	Exit
* Material: TRFR4201	
Flant:	
* BOM Usage:	
Alternative BOM:	
Validity	
Change Number:	
Valid From: 2024/05/02	
Revision level:	

 在 Material 欄位輸入【DXTR4###】(###是 SAP 帳號後 3 碼), Plant 欄位輸入或選擇 【DL00】, BOM Usage 欄位選擇代表 Costing 的【6】。如下圖:

=	SAP Business Client _ 🗖 🗙
E Create material BOM: Init +	
(≔ ★ Enter transaction code or command	Q 🔲
Create r	aterial BOM: Initial Screen
🕦 🗐 Create variant of More 🗸	Exit
* Material: DXTR4201 Flant: DL00 * BOM Usage: 6 Alternative BOM:	

3. 接著按滑鼠右鍵,從選單中選擇[Copy From],系統帶出 Copy From...視窗如下:

=1	Copy From	×
* Material:	Q	
Plant: * BOM Usage: Alternative BOM: Validity	DLOD Plant Dallas 6 Costing	
Change Va Revis	e Number: lid From: 2024/05/02 ion level:	
Renumber		
	Ý	×

在 Material 欄位中輸入【DXTR1###】(###是 SAP 帳號後 3 碼), Plant 欄位輸入【DL00】,
 BOM Usage 欄位從下拉式選單中選擇代表 Plant DL00 的 Costing 的【1】。如下圖:

≡i I	Copy From		X
* Mate	erial: DKTR1201		
Pl * BOM Us Alternative B	lant: DL00 Plant Dallas age: 1 Costing OM:		
C	hange Number: Valid From: 2024/05/02 Revision level:		
Renumber			
		Ś	≈

5. 點按視窗下方的**綠色勾號[V]**。系統帶出 Create material BOM: Copy From 視窗如下:

	SA	2		Creat	e material BOM: Copy I	from						
83 I	E	۵	📫 🍝 🖃 Subitems 🖓 Validity More 🗸									Exit
		Mat	Itmal: DXTR1201	(7) Deluxe	Touring Bios (black)							
AI BOM its	lternati ems	ive P	KOM: 1									4
Item	Kt	0	Component	Component description	Quantity	UoM	Asta	Sh	Valid From	Valid to	Rem ID	
0010	L	м	TR#A1201	Touring Aluminum Whe	2	EA			2010/01/01	9999/12/31	00000001	
0020	L	H	TRFR1201	Touring Frame-Black	1	EA			2010/01/01	9999/12/31	00000002	
0030	L	М	DGAM1201	Derailleur Gear Assembly	1	EA			2010/01/01	9999/12/31	00000003	
0040	L	M	TRSK1201	Touring Seat Kit	1	EA			2010/01/01	9999/12/31	00000004	
0050	L	K	TRHB1201	Touring Handle Bar	1	EA			2010/01/01	9999/12/31	00000005	
0060	L	К	FEDL1201	Pedal Assembly	1	EA			2010/01/01	9999/12/31	00000006	
0070	L	М	CHAN1201	Chain	1	EA			2010/01/01	9999/12/31	00000007	
0080	L	M	ERKT1201	Brake Kit	1	EA			2010/01/01	9999/12/31	8000000	
0090	L	M	WDOC1201	Warranty Document	1	EA			2010/01/01	9999/12/31	00000009	
0100	L	K	PCK91201	Packaging	1	EA			2010/01/01	9999/12/31	00000010	

6. 按滑鼠右鍵,選擇[Select All]。如下圖:

	SAP							Create material BOM; Copy From								
53	1	-	0 W		🔊 Subitems	🖓 Validity	$\rm Mors \sim$									Eait
			Material:	DATR1201				6 Deluxe	Touring Bike (black)							
			Plant:	DL00 P	ant Dallas											
	- 0.9		time Britan													
	~	tema	nve pom:	1												
BC	)M ite	ms														0
1	tem	1Ct	O. Comp	onent				Component description	Quantity	UoM	Asm	Sls	Valid From	Valid to	Item ID	
1	0010	L	M TREAT	201				Touring Aluminum Whe-	2	EA	1		2010/01/01	9999/12/31	00000001	\$
1	0020	L	M TEFRI	201				Touring Frame-Black	1	EA			2010/01/01	9999/12/31	00000002	
1	0030	L	M DGAMI	201				Detailleur Gear Assembly	1	EA			2010/01/01	9999/12/31	0000003	
V 1	0040	L	M TRSKI	201				Touring Seat Kit	1	EA			2010/01/01	9999/12/31	00000004	
<b>v</b> 1	0050	L	M TRHBI	201				Touring Handle Bar	1	EA			2010/01/01	9999/12/31	00000005	
I	0060	L	M PEDLI	201				Pedal Assembly	1	EA			2010/01/01	9999/12/31	00000006	
V 1	0070	L	M CHANI	201				Chain	1	EA			2010/01/01	9999712731	00000007	
<b>V</b> 1	0800	L	M ERKTI	201				Esake Kit	1	EA			2010/01/01	9999/12/31	8000000	
<b>v</b> 1	0090	L	N NDOCI	201				Warranty Document	1	EA			2010/01/01	9999/12/31	00000009	
v 1	0100	L	M PCKG1	201				Packaging	1	EA			2010/01/01	9999/12/31	00000010	
																<u>^</u>
								0								() •
			Posit	äon			Initi	al	Entry: 1 /	10						

 7. 按滑鼠右鍵,點選[Copy]。系統帶出 Create material BOM: General Item Overview 視窗,畫面 中呈現 DXTR4###這款新自行車的 BOM 如下(Copy 自 DXTR1###):

<	1	SAP	<b>-</b>	Create material BOM: G	eneral Item Overview						
33	I:	*	🖇 🗢 🖃 Subiterat - New Entries	📋 🔝 Header Details 🖓 Validity More 🗸							Exit
		М	fatenal: DXTR4201	Deluxe Touring Edo	t (white)						
			Plant: DL00 Plant Dallas								
	Alte	mative	ROM: 1								
	Phy	ntine	Effectivity Initial See								
Mate	tal	Doci	ument General								
	ltern	RCt	Subitera New Entries faterial: DKTR4201 Finit: DL00 Finit Dallas # BOM: 1 Effectivity Initial Sci Component TRA(20), TBER(20), DGM(20), TBER(20), DGM(20), TER(20), DGM(20), TER(20), DGM(20), TER(20), DGM(20), TER(20), Effectivity Initial Sci Component TRA(20), TER(20), DGM(20), TER(20), Effectivity Initial Sci Component TRA(20), TER(20), DGM(20), TER(20), Effectivity Initial Sci Component TRA(20), TER(20), Effectivity Initial Sci Component TRA(20),	Component description	Quantity	UoM Asn	SIs	Valid From	Valid to	Change No.	PO
	0010	L	TR#A1201	Touring Aluminum Wheel Assembly	2	EA 🗸		2024/05/02	9999/12/31		0
	0020	L	TRFR1201	Touring Frame Black	1	BA 🗌		2024/05/02	9999/12/31		
	0030	L	DGAM1201	Detailleur Gear Assembly	1	EA		2024/05/02	9999/12/31		
	0040	L	TRSK1201	Touring Seat Kit	1	EA		2024/05/02	9999/12/31		
	0050	L	TRHB1201	Touring Handle Bar	1	EA		2024/05/02	9999/12/31		
	0060	L	PEDL1201	Pedal Assembly	1	EA		2024/05/02	9999/12/31		
	0070	L	CHAN1201	Chain	1	EA		2024/05/02	9999/12/31		
	0800	L	ERKT1201	Brake Kit	1	EA		2024/05/02	9999/12/31		
	0090	L	0D0C1201	Warranty Document	1	EA		2024/05/02	9999/12/31		~
			0								() "
	2	sauy:	1 / 10								
										Save	Cancel

 把 0020 這個 Item 的 Component 欄位內容,從【TRFR1###】改為步驟 2 創設的 【TRFR4###】,如下圖:

Subtrems New Entries	Header Details      Valetity More       Details      Details      Details      Details     Component description	Quantity	UeM .						Exit
atenal: DXTN4201 Plant: DL00 Plant Dallas BCM: 1 Effectivity Initial Screen ument General Component TR901201	Deluxe Toming Bice (white)	Quantity	UoM .						
Component TRWA1201	Component description	Quantity	UoM /						
TR#A1201	and the second second second			Asm	SIs	Valid From	Valid to	Change No.	PO
	Touring Aluminum Wheel Assembly	2	EA	1		2024/05/02	9999/12/31		ċ
Subitons New Entries     Material: DKTR4201     Plant: EC00 Plant Dallas     native BCM: 1     tom Effectivity Initial Screen     Document General     K1 Component     L TEM1201     TEM1201     TEM1201     TEM1201     L T	@ ming Frame-Black	1	EA			2024/05/02	9999/12/31		
DGAM1201	Derailleur Gear Assembly	1	EA			2024/05/02	9999/12/31		
TESK1201	Touring Seat Kit	1	EA			2024/05/02	9999/12/31		
TEHB1201	Touring Handle Bar	1	EA			2024/05/02	9999/12/31		
PEDL1201	Pedal Assembly	1	EA			2024/05/02	9999/12/31		
CHAN1201	Chain	1	EA			2024/05/02	9999/12/31		
EEKT1201	Brake Kit	1	EA			2024/05/02	9999/12/31		
WD0C1201	Warranty Document	1	EA			2024/05/02	9999/12/31		~
1 / 10									
	IRBNI201 CHAMI201 ERXT1201 ERXT1201 ↔	Amanazati contra randon nar ESELI201 Pold Assembly CHAR1201 Chain ESELI201 Brake Xit Warnaty Document (*)	ARABALADA Looma roundo Sat 1 Looma roundo Sat 1 ERECLI201 Pold Assembly 1 ERECLI201 Chan 1 ERECLI201 Back Nit 1 Warnaty Docurcat 1 1 / 10	AmanLada rooma radio sati i DA ESCLI2DI Pelol Assembly I EA ESCLI2DI Chain I EA ESCLI2DI Beake Xit I EA ESCLI2DI Beake Xit I EA Waranty Document I EA ↔	Alaminini Pornag rassin par ESCLI 201 Pold Ansembly 1 EA □ ESCLI 201 Chain 1 EA □ ESCLI 201 Back Xit 1 EA □ Warnaty Document 1 EA □ A □ EA □ 1 / 10	IMBLE LIZEL     Pointing reasons bas     1     EA       Peilal Assembly     1     EA       CB2K11201     Chain     1     EA       BEXT1201     Endex Kit     1     EA       Warranty Document     1     EA	IABALIZIA         Forming reasons part         I         EA         I         Documentary (1)           Pedal Assembly         1         EA         2024/05/02         EXXI1201         Chain         1         EA         2024/05/02           EXXI1201         Endex Kit         1         EA         2024/05/02         EXXI1201         Endex Kit         1         EA         2024/05/02           EXXI1201         Waranty Document         1         EA         2024/05/02         EXXI1201           1         Varanty Document         1         EA         2024/05/02         EXXI1201         E	IABALIZIA         Formage result         I         EA         IZEGN 105/02         9999/12/31           EREXL2D1         Chain         1         EA         2024/05/02         9999/12/31           EREXL2D1         Chain         1         EA         2024/05/02         9999/12/31           EREXL2D1         Endee Kit         1         EA         2024/05/02         9999/12/31           EREXL2D1         Waranty Document         1         EA         2024/05/02         9999/12/31	10000200000000000000000000000000000000

9. 輸好後,按鍵盤上的[Enter],可看到 0020 這個 Item 的 Component description 欄位的值也跟 著修改為【Touring Frame-White】,如下圖:

<	s	AP		Create material BOM: General Ite	m Overview							
SE.	15	*	🗢 🖃 Sabiteran New Eatries 👕	II Header Details $\nabla$ Validity More $\sim$								Exit
Material	Alten Ponit	M native tion Doct	aterial: DKTB4201 Plant: EL00 Plant Dallas EGM: 1 Effectivity Initial Screen ament General	Deluxe Touring Eike (white)								
h	ern	Kt	Component	Component description	Quantity	UoM .	Asm	SIs	Valid From	Valid to	Change No.	P®
0	010	L	TE\$A1201	Tonring Aluminum Wheel Assembly	2	EA	2		2024/05/02	9999/12/31		0
	020	L	TEFR4201	Touring Franze-White	1	EA			2024/05/02	9999/12/31		
0	030	L	DGAM1201	Detailleur Gear Assembly	1	EA			2024/05/02	9999/12/31		
	040	L	TESK1201	Tonning Seat Kit	1	EA			2024/05/02	9999/12/31		
0	050	L	TRHB1201	Topring Handle Bar	1	EA			2024/05/02	9999/12/31		
0	060	L	PE0L1201	Fedal Assembly	1	EA			2024/05/02	9999/12/31		
0	070	L	CHAN1201	Chain	1	EA			2024/05/02	9999/12/31		
0	080	L	ERXT1201	Brake Kit	1	EA			2024/05/02	9999/12/31		
0	090	L	9EOC1201	Warranty Document	1	EA			2024/05/02	9999/12/31		~
	Ez	dry;	1 / 10								Save	Cancel

10. 按下視窗右下方的[Save],系統回到 Create material BOM: Initial Screen 視窗。視窗左下方顯示 Creating BOM for material DXTR4###訊息:

=	SAP Business Client	_ 🗆 ×
Create material BOM: Init +		
😑 ★ Enter transaction code or command		٩ 🔲
< SAP	Create material BOM: Initial Screen	
啦 🗐 Create variant of More 🗸		Exit
* Material: DXTR4201 Plant: DL00 Plant Dallas * BOM Usage: 6 Costing Alternative BOM: Validity Change Number: Valid From: 2024/05/02 Revision level:		

11. 以上為步驟 3。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。

## ● 步驟 4: Create Routing for Product Costing (建立途程)

角色扮演:GBI公司的生產數據管理員(Production Data Administrator):Jermain Kumins 任務情境:以複製現有資料的方式為步驟1創建的新自行車建立途程(routing) 名詞解析:途程(routing)詳列生產過程中需依序經過的步驟或工序

 接續步驟 3,(若完成步驟 3 後已下線,請使用自己的帳號、密碼重新登入 SAP 系統),在 [Enter transaction code or command]欄中輸入 CA01 這個交易代碼。按[Enter]。(或從以下路徑 進入: Logistics => Production => Master Data => Routings => Routings => Standard Routings => Create)

系統帶出 Create Routing: Initial Screen 視窗如下:

< SAP	Create Routing: Initial Screen	
🍨 🗐 Copy from 🖃 Ro	tings Sequences Operation More $\vee$	Exit
Material Plant Sales document WBS Element Group Validity	DXTR4201 DL00 Sales Document Item:	
Change Number * Key Date: Revision level:	2024/05/02	
Additional data Profile:		Continue

在 Material 欄位中輸入【DXTR4###】(###是 SAP 帳號後 3 碼), Plant 欄位輸入【DL00】。
 點擊視窗左上方的[Copy from],系統帶出 Select type 視窗如下:



3. 確認系統已選擇【Routing】。點按視窗右下方的**綠色勾號**[V],系統帶出 Create Using Copy Function: Select Object to be Copied 視窗如下:

Material:			ব	
Plant;	DL00			
Sales document:		Item:		
WBS Element:				
Group;				
* Key Date:	2024/05/02			
ask list selection criteria				
ask list selection criteria Plant:				
ask list selection criteria Plant: Group Counter:				
isk list selection criteria Plant: Group Counter: Task List Status:				
ask list selection criteria Plant: Group Counter: Task List Status: Planner Group:				
ask list selection criteria Plant: Group Counter: Task List Status: Planner Group:				
ask list selection criteria Flant: Group Counter: Task List Status: Planner Group:				
ask list selection criteria Plant: Group Counter: Task List Status: Planner Group:				
ask list selection criteria Plant: Group Counter: Task List Status: Planner Group;				

在 Material 欄位中輸入【DXTR1###】(###是 SAP 帳號後 3 碼), Plant 欄位輸入【DL00】。
 如下圖:

E Cre	ate Using Copy Function: Select Object to be Co	pied	×
Material:	DXTR1201	ব	
Plant:	DLOO		
Sales document:	Item:		
WBS Element:			
Group:			
* Key Date:	2024/05/02		
Fask list selection criteria			
There			
Fidit.			
Group Counter:			
Task List Status:			
Planner Group:			
		A	×

5. 點按視窗右下方的緣色勾號[V],系統帶出 Create Routing: Header Data Check 視窗如下:

Mere >  Mere >  Mere >  Mere >  Mere >  Mere Transport T	SAP	Create Routing: Header Data Check
Material DXTR4201 Deluxe Touring Bike (white) Task List  Group: Group: Group Counte:  Fedrat: DL00 Long Text Exists:  Production line Line Hexarchy  General Data  General Data  Fedration  CAPP order: CAPP order	More 🗸	
Group:   * Group Counte:   1   * Plant:   DD0   Long Text Exists:	Material DXTR4201 Task List	Deluxe Touring Bike (white)
* Group Counter: 1  * Plant: DL00 Long Text Exists:   Production line Line Hierarchy General Data General Data Flanter Group: Flanning Work Ceater: CAPP order: Lot Size From: Lot Size Fr	Group:	
* Plant: DL00   Production line   Line Hierarchy   General Data   Ceneral Data     Deletion Flag:     * Usage:     1   Production   * Overall Status:   Planner Group:   Planning Work Center:   CAPP order:   Lot Size From:   Old Task List No:   Description:   Image:     * Usage:     * Usage:     * Overall Status:     * Usage:     * Image:     * Usage:     * Orderall Status:     * Usage:     * Overall Status:     * Usage:     * Orderall Status:     * Usage:     * Orderall Status:     * Usage:     * Overall Status:     * Usage:     * Overall Status:     * Usage:     * Overall Status:     * Overall Status:     * Outer:     * Outer: </td <td>* Group Counter:</td> <td>1</td>	* Group Counter:	1
Production line Line Hierarchy General Data General Data Ieletion Flag: *Usage: Planner Group: Planner Group: Planning Work Center: CAPP order: Lot Size From: Lot Size From: Cld Task List No:	* Plant:	DL00 Long Text Exists:
Line Hierarchy         General Data            Ueletion Flag:          * Usage:         1         Production         * Overall Status:          Planner Group:         Planning Work Center:         CAPP order:         Lot Size From:         Lot Size From:         Lot Size To:         99,999,999         EA         Old Task List No:	Production line	
General Data  Deletion Flag:  * Usage: Production  * Overall Status: Flanner Group: Planning Work Center: CAPP order: Lot Size From: Lot Size From: Lot Size To: 99,999,999 EA	Line Hierarchy	
Deletion Flag:   * Usage:   1   Production   * Overall Status:   Planner Group:   Planner Group:   Planning Work Center:   CAPP order:   Lot Size From:   Lot Size To:   99,999,999   EA	General Data	
* Usage: 1 Production * Overall Status: Flanner Group: Planning Work Center: CAEP order: Lot Size From: Lot Size To: 99,999,999 EA Old Task List No.:	Deletion Flag:	
* Overall Status:     Planner Group:     Planning Work Center:     CAPP order:     Lot Size From:     Lot Size To: 99,999,999 EA     Old Task List No.:	* Usage:	1 Production
Planner Group:         Planning Work Center:         CAPP order:         Lot Size From:         Lot Size To:         99,999,999         EA	* Overall Status:	
Planning Work Center: CAPP order: Lot Size From: Old Task List No.: CAPP order: Lot Size To: 99,999,999 EA	Planner Group:	
CAPP order: Lot Size To: 99,999,999 EA Old Task List No.:	Planning Work Center:	
Old Task List No.:	CAPP order:	Let Size Ter DD DDD DDD
	Lot Size From:	LOUSIZE IC: 99,999,999
	UNU LESS LIST NU.	

6. 在 General Data 資料區域的 Overall Status 欄位選擇代表 Released (general)的【4】,如下圖:

K >     Material DXIR4201        Deluxe Touring Bike (white)     Task List     Group:     Group:     Group:     Group:     Production line     Line Heerachy     Deletion Flag:     * Usage:     Production   * Orearal Status:     Planning Work Center:   CAPP order:   Lot Size From:   CAPP order:   Lot Size From:   CAPP order:   Lot Size Tro: [99,999,999]      Ext	< SAP	Create Routing: Header Details	
Material DXTR4201       Debuxe Touring Bike (white)         Task List         Group:         Group Counter:         1         * Plant:         Dobu         troduction line         Line Hierarchy         Deletion Flag:         * Usage:         Production         • Overall Status:         Baner Group:         Planning Work Center:         CAPP order:         Lot Size To:         99,999,999         Edit List No:	< > 🗋 🖗 🖬 R	Routings Assignment Sequences Operation Allocation More $\sim$	Exit
Task List  Group: Group Counter:  Plant: DDD  Cong Text Exists:  Cong Text Exists:  Production line  Line Hierarchy  Deletion Hag:  Planting Coupe:  CAFP order:	Material DXTR4201	Deluxe Touring Bike (white)	\$
Group:   Group Counter:   * Plant:   Du0	Task List		
Group Counter:   * Plant:   DL00	Group:		_
* Plant: DLOD Long Text Exists: Production line Line Hierarchy General Data Deletion Flag: * Usage: ] Production * Overall Status: 4 Released (general) Planning Work Center: CAPP order: Lot Size From: Lot Size To: 99,999,999 EA	Group Counter:	1	
Production line Line Hierarchy	* Plant:	DL00 Long Text Exists:	
Line Hierarchy	Production line		
General Data  Deletion Flag:  * Usage: Production  * Overall Status: Released (general) Planning Work Center: CAPP order: CAPP	Line Hierarchy		
Deletion Flag:       • Usage:       1       Production         * Usage:       1       Production         * Overall Status:       4       Released (general)         Planner Group:       -         Planning Work Center:       -         CAPP order:       -         Lot Size From:       Lot Size To:       99,999,999         Cld Task List No:       -	General Data		
* Usage: 1 Production * Overall Status: 4 Released (general) Planner Group: Planning Work Center: CAPP order: Lot Size From: Lot Size From: CId Task List No: Save Cancel	Deletion Flag:		
* Overall Status: 4 Released (general) Planner Group: Planning Work Center: CAPP order: Lot Size From: Lot Size From: Lot Size To: 99,999,999 EA Cld Task List No.: Save Cancel	* Usage:	1 Production	
Planner Group:         Planning Work Center:         CAPP order:         Lot Size From:         Lot Size To:         99,999,999         EA         Old Task List No.:	* Overall Status:	4 Released (general)	
Planning Work Center: CAPP order: CAPP order: Cont Size From: Cont Size From: Cont Size From: Cont Size To: 99,999,999 EA Size Cancel	Planner Group:		
CAPP order: Lot Size From: Lot Size To: 99,999,999 EA Cld Task List No.: Save Cancel	Planning Work Center:		
Lot Size From: Lot Size To: 99,999,999 EA Old Task List No.:	CAPP order:		
Old Task List No.:	Lot Size From:	Lot Size To: 99,999,999 EA	
Save Cancel	Old Task List No.:		
Save Cancel			\$
		Save	Cancel

7. 按鍵盤上的[Enter]。系統帶出組裝 DXTR4###這款自行車的途程如下(從 DXTR1###的途程 Copy 過來):

Lon PRT C	¢ Ja., Obj., Peri
Lon PRT C	Cla Obj Peri
Lon PRT C	( Cla Obj Peri

8. 勾選 Operation 0010 這一列(Material staging),如下圖:

<	<ul> <li>&gt;</li> </ul>	• 2 1	E 🗑	Þ	6 0	Reference Work center Allocation Sequences More \	∠ Q Q <sup>+</sup> Exi
Mat	terial DXT Sequend	R4201 re: 0		Deluxe	e Touring Bike(	hp.Count1	
C	)peration (	verview	<b>1</b> 1.	a .	n.     m		
	Opera SC	p work center	Plant	Contr	Standard 16	Leschpuon	Lon PKI Cla ODj Pen
~	0010	ASSTIUUU	DLUU	ASSI		Material staging	
	0020	ASSY1000	DLUU	ASSI		Attach seat to frame	
	0030	A2211000	DLUU	8551		Attach handle bar assembly	
	0040	ASSTIDUO	DLUU	ASSI		Attach derailieur gear assm. to wheel	
	0050	ASSY1000	DLUU	ASSY		Attach front and real wheels to chain	
	0060	ASSY1000	DLUU	ASSY		Attach brakes	
	0070	ASSITUUU	DLUU	ASSI		Attach peddles	
	0080	INSPIDUD	DLUU	ASSY		Test bike	
	0090	PACKIUUU	DLUU	ASSY		Lisassemble	
	0100	PACKIUUU	DLUU	ASSY		Pack bike	
	0110	PACKIUUU	DLUU	ASSY		Move to storage	
	0120		DL00				
	0130		DLOO				
	0140	()	DL00				
		Entry: 1		of	11		

9. 點擊視窗上方的[Allocation],系統帶出 Material Component Overview 視窗如下:

še še	= ==	-													
			≞ Q	$Q^+$	$\nabla$	Ŷ	New Assignment	Reassign	BOM	🛋 Task list	Operation	More $\checkmark$			
	Mate	rial: DXI	R4201						Deluxe To	uring Bike (white)					
	Р	ant: DLC	0												
	G	0110-					Sequence:	n							
		oup.	00040				All TICAL								
		OM: UUU	28048				AIL BOW:	1							
Item Ove	erview														
P Lev	vel Path	Item	Component	t					Quan	tity	Sort Stri	ng Uni	. It	В.,	
0	0	0010	TRWA1201						2			EA	L		
0	0	0020	TRFR4201						1			EA	L		
0	0	0030	DGAM120	1					1			EA	L		
0	0	0040	TRSK1201						1			EA	L		
0	0	0050	TRHB1201						1			EA	L		
0	0	0060	PEDL1201						1			EA	L		
0	0	0070	CHAN1201						1			EA	L		
0	0	0800	BRKT1201						1			EA	L		
0	0	0090	WDOC120:	1					1			EA	L		
0	0	0100	PCKG1201						1			EA	L		
														<	>

- 10. 可看出 Item 0020 已置換為 TRFR4###這個新建立的原物料(###是 SAP 帳號後 3 碼)。
- 11. 按視窗右下方的[Save], 系統回到 Create Routing: Initial Screen 視窗。視窗左下方顯示 Routing was saved with group [一組數字] and material DXTR4###的訊息。如下圖:

E SAP Business Client	_ 🗖 ×
Create Routing: Initial Scr +	
Enter transaction code or command	۹ 🗉
Create Routing: Initial Screen	
Copy from 🖬 Routings Sequences Operation More 🗸	Exit
Material: DXTR4201	
Plant: DL00	
Sales document: Sales Document Item:	
WBS Element:	
Group: 50028035 Validity	
Change Number:	
* Key Date: 2024/05/02	
Revision level:	
Additional data	
Profile:	
Routing was saved with group S0028035 and material DXTR4201.	Continue

12. 以上為步驟 4。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。

### ● 步驟 5: Create Cost Estimate (建立成本估算)

角色扮演:GBI公司的成本會計員(Cost Accountant): Jamie Shamblin 任務情境:根據步驟 3、4 建立的用料清單及途程內容,估算 DXTR4###這項產品的成本

 接續步驟 4,(若完成步驟 4 後已下線,請使用自己的帳號、密碼重新登入 SAP 系統),在 [Enter transaction code or command]欄中輸入 CK11N 這個交易代碼。按[Enter]。(或從以下路 徑進入: Accounting => Controlling => Product Cost Controlling => Product Cost Planning => Material Costing => Cost Estimate with Quantity Structure => Create)

< SAP	Create Material Cost Estimate with Quantity Structure
6ð More 🗸	Exit
* Material:         * Plant:         Val. Type:         Costing Data         Dates       Qty Struct.	् ् 
Costing Variant: Costing Version: 1 Costing Lot Size: Transfer Control:	
0	

系統帶出 Create Material Cost Estimate with Quantity Structure 視窗如下:

 在 Material 欄位輸入【DXTR4###】(###是 SAP 帳號後 3 碼), Plant 欄位選擇【DL00】。在 下方的 Costing Data 頁籤中, Costing Variant 欄位選擇代表 Standard Cost Est. (Mat.)的 【PPC1】, Costing Version 欄位選擇【01】, Costing Lot Size 欄位輸入【1】。如下圖:

<	SAP	Create Material Cost Estimate with Quantity Structure
69	More 🗸	Exit
Costing	• Material:       DXTR4201         • Plant:       DL00         Val. Type:	:
	Costing Variant: PPC1 Costing Version: 01 Costing Lot Size: Transfer Control:	1
•		

3. 按下鍵盤上的[Enter],畫面跳至同一個視窗的 Dates 頁籤 (若按下 Enter 後出現警告訊息,再按一次 Enter 即可)。在 Costing Date From、Qty Structure Date 及 Valuation Date 三個欄位均輸

入【操作當日日期】。如下圖:(註:周老師講義在本步驟重新操作過,比前面四個步驟日期 略有延後,但不影響執行成果)

60 More	$\checkmark$		Exit
	Material: DXTR4201 Plant: DL00	Deluxe Touring Bike (white)	
osting Data	Dates     Qty Struct.       * Costing Date From:     2024/07/13       * Costing Date From:     2024/07/13	Posting Period: 0	
	* Qty Structure Date: 2024/07/13		

4. 按下[Enter],系統會根據前面步驟建立的用料清單(BOM)及途程(Routing),估算出 DXTR4### 這項產品的成本為\$732.05 USD。如下圖:

	Cr	eate Mater	ial Cost Estimate with Quan	tity Structure			
Detail List Off	쥠 Hold [	I ()	More ~				Exit
Costing Data	<ul> <li>Material: DX</li> <li>* Plant: DL</li> <li>Val. Type:</li> <li>Dates C</li> <li>* Costs Base</li> <li>\$</li> </ul>	IR4201           10           Ity Struct.           used On:           C           WBB	Valuation History	Costs	'ouning Bike (white) EA	(D) 00=	
Cost Compo	onent View		Total Costs for View	Fixed Costs	Variable Costs	Currency	
	de Manufacturod		732.05	0.00	732.05	USD	
Cost of Goo	us manufactureu						
Cost of Goo	ds Sold		732.05	0.00	732.05	USD	
Cost of Goo Cost of Goo Sales and A	ds Sold dministration Cos	ts	732.05	0.00	732.05	USD USD	
Cost of Goo Cost of Goo Sales and A Inventory (C	ds Sold dministration Cos commercial)	its	732.05 0.00 0.00	0.00 0.00 0.00	732.05 0.00 0.00	USD USD USD	

5. 點選視窗上方的 More => Costs => Display Cost Components 路徑,視窗下方表格會出現 DXTR4###這項產品的成本細節。在下方表格的圖形選項點擊<sup>■</sup>後選擇 Choose Layout...。在 Choose Layout 視窗中選擇代表 Cost Component Groups 的【1SAP02】這個 Layout:

	Choose Layout	>
	Layout setting: All	
Layout	Layout description	Default
1SAP01	Cost Components	
1SAP02	Cost Component Groups	
1SAP03	Total / Level / Lower level	

6. 此時視窗下方表格呈現 DXTR4###這項產品的成本細節,如下圖:

Cost Components for Material DXTR4201								
$\textcircled{A} = \fbox{A} \times \textcircled{V} \times [\Sigma \times \fbox{V}] \textcircled{B} \otimes \checkmark \checkmark \textcircled{B} \times \fbox{V} $								
Cost Comp.	Name of Cost Comp.	Σ	Overall <sup>2</sup>	Fixed <sup>5</sup>	Variable	Currency		
1	Raw Materials		700.10		700.10	USD		
2	Human Resources					USD		
3	Production		31.95		31.95	USD		
4	Material Overhead					USD		
5	Production Overhead					USD		
8	External Activity					USD		
9	Miscellaneous					USD		
< no designa	tion >	•	732.05	1. A.	732.05	USD		
			732.05		732.05	USD		

7. 按視窗右下方的[Save],系統會在視窗左下方顯示[The cost estimate is being saved.]的訊息:



8. 以上為步驟 5。點按視窗右上方的【Exit】,回到 SAP Easy Access 畫面。