Perpetual Inventory Link with QuickBooks Online

Introduction (Seminar 13)

The operation of the Perpetual Inventory system for materials is summarized in the following table.

$QuickBooks \rightarrow$	Profit & I	JOSS	Balance Sh	eet				
Action in ManuDyn	Material Variance (D)	COG or Expense (D)	Goods Received Control (D)	Inventory Account (D)	Work In Progress (D)	Finished Goods (D)	Tax Account (C)	Accounts Payable (C)
Goods Received	Credit Std Cost		Debit Std Cost					
Invoice received & Reconciled	Debit Net Cost		Credit Std. Cost	Debit Std. Cost			Credit Tax	Credit Actual Cost
Job Issue to factory				Credit Std. Cost	Debit Std. Cost			
Complete Job					Credit Std. Cost	Debit Std. Cost		
Invoice Job		Debit Std. Cost				Credit Std. Cost		

The process starts at the Receipt of Goods against a purchase order. In the accounts system the value of the goods (at either Standard Cost or Weighted Average Purchase Price) is placed in the Material Variance (Cost of Goods Sold account) and balanced against the Goods Received control account.

When the Supplier Invoice is received the value of the goods is passed from Goods Received to the Inventory account and the actual cost is processed to Accounts Payable (and Tax as appropriate) and balance with the Material Variance Account. The net amount in the Material Variance account at this point is the difference between the estimated and actual cost (it is a variance against the standard).

When the Job is Issued to production the material value moved from Inventory into Work-inprocess and when the Job is finished it moves to the Finished Goods account. Invoicing the Job will move the material value from Finished Goods to the Cost of Goods Sold account.

The actual value of material is therefore the sum of the Material Variance and the Cost of Goods Sold accounts and this result in the same irrespective of whether you choose to use Standard Cost or Weighted Average Purchase Prices as the basic for the material valuation.

QuickBooks> **Profit & Loss Balance Sheet** Action in COG Job Cost Work In Finished Job Cost Bank ManuDvn Labour Labour Labour Progress Goods (D) Variance (D) Liability (D) (D) (D) **(D)** Weekly Payroll Debit Credit **Actual Cost** Actual Cost **Job Status** Credit Debit Update WCRR Cost WCRR Cost **Complete** Job Credit Debit WCRR Cost WCRR Cost **Invoice** Job Credit Debit **Debit** Credit WCRR Cost WCRR Cost WCRR Cost WCRR Cost

The processing for the Labour component the Perpetual Inventory system is as follows:

Usually the weekly payroll is balanced against the Labour expense account. In this system the expense account becomes the Labour Variance account, that is the difference between the actual cost (the payroll) and the Job Cost. Time is recorded against jobs and valued at either the Employee Recovery Rate or the Work Centre Recovery Rate. It makes no difference which you choose as the actual cost is always the sum of the Labour Variance and the Cost of Goods for Labour (see above).

The Work in Progress account increases as the Job is progressed and when finished moves into the Finished Goods account in the same way it does for materials. At Invoicing the Labour component of Work in Progress moves from finished goods into the Cost of Goods Sold account for Labour.

In this Seminar we examine the entire operation of the Link involving Sales Orders, Purchasing, Inventory and Stock control together with Scheduling and Job Costing all functional activities in ManuDyn. In QuickBooks we will look at the effects on the Control and Asset accounts in the Balance Sheet, and the Variance, Expense and Cost of Goods Sold accounts in the Profit and Loss report.

Processing Sales Orders (A Complete ERP Operational Overview)

To illustrate the operation of the entire ERP process we need to first create a *Material Item* (a raw material called RM), with the vendor being the Supplier we created earlier (SUPPLIER). We will then create a *Manufactured Item* (called PART) and add the raw material as an item in its Bill-Of-Material. You should also add at least one process to the Routing.

We will begin by raising a Sales Order. Select the *Sales Orders/Order Management* menu item then select the New Icon to assign the Job Number and the Customer Lookup to recall the customer we created earlier (CUSTOMER). Then from the Grid dialog use the Lookup to recall the PART Item Code and set the required quantity. In my example I have entered a quantity of 100 as shown below:

	TESTQBUK <u>JIM</u> <u>Log Out</u>			
🚮 Home	Sales Order: 0000012	I 🔲 🗈 🛈 🗙 🛛	Print Ticket Purchase	2 🗵
Database Entry	Order Details Other Attachme	ents		
Quoting	Customer Details			
Sales Orders	Quote: Customer: CUSTOM	ER 🔒 📑 🕦	On hold Delivery Address: 1 The back Lane	20
Order Management	Contact:			
Print Acknowledgement	Currency Pound S	iterling	Currency conversion: 1	~
Job Details	Customer Order Number:		Tax Group ID: 20.0% S	
Job Ticket	Sales Code:		Department:	0
Order Despatch	Item Details			
Print Despatch	# Item Code	Order Quantity Unit Pri	ce Due Date Est. Finish Date Qty Outsta	anding
Orders On Hand	1 PART	100 20	2016-09-15 100	
Work In Progress				
Scheduling	Import Sales Order		Tax Name Tax Rate Amount	
-			SS-20.0 20.0000 400	
Purchase Orders			Total Order Amount: £2400	
Inventory Control	Last Emailed: Last Modified:		📀 ОК 🛛 😣 С	Cancel

Once the Sales Order has been saved select the *Inventory Control/Order Processing* menu item which recalls the order processing dialog as shown below:

00											
🚮 Home	Automatic Order	Processing	All Suppli	iers or 🔿 Supplier:							
Database Entry	Sales Order Searc		es Order:								
Quoting	Order by Date Se	lection									
Sales Orders	 All dates or 		re or on 9/15,	/2016 💙							
Scheduling	Item Search Sele	ction —									
Purchase Orders	Search Fle	ld	Search Type		Search Value						
Inventory Control						Conveh					
Order Processing						Search					
Store Issue/Return	Items to be proces	sed									
Store Transfer	Order Quar		pplier	Item Code	Description	UOM	In Stock	On Order	Committed		Jobs #
Stocktake Entry	+ 0	SUPPLI	ER RM		A Raw Material Item	units	0	0	100	100	1
Stock Requirements											
Stock Audit Trail											
	Select All	Print							📀 ок	🙁 Ca	incel

The lower grid display in this dialog shows the outstanding material requirements (that are not covered by what's in stock or on order), and which need to be purchased in order to satisfy our Sales Orders. In my example a purchase order now needs to be created for or RM material item. This can be done independently (that is manually) through *Purchase Order/Purchase Orders* menu item however, it is more efficient to do it here by simply selecting the Order box adjacent to the material requirement (see below).

	TESTQBL	<u>ик лім</u>	Log Out										
🚮 Home	Automatic	Order Proc	essing 🛛 💿 All S	Suppliers	or O Supplier:			_	_			×	
Database Entry		er Search Se les Orders o	lection r 🔿 Sales Order:			6							
Quoting	Order by [Date Selectio	n		1	а 							
Sales Orders			der before or on	9/15/201	6 💙								
Scheduling	Item Sean	ch Selection											
Purchase Orders	Sea	arch Field	Search	Туре	Si	earch Value							
Inventory Control													
Order Processing							Search						
Store Issue/Return	Items to be	processed -											h
Store Transfer	Order		Supplier		Item Code	Description	UOM	In Stock	On Order	Committed	1	Jobs #	
Stocktake Entry		100	SUPPLIER	RM		A Raw Material Item	units	0	0	100	100	1	
Stock Requirements													
Stock Audit Trail													
	Select	: All	Print							📀 ок	🔞 Ca	ancel	Γ

This will raise a purchase order for 100 units of RM-1 from the SUPPLIER and a popup dialog to this effect will be displayed similar to that shown below:

The following Purcha	ase Orders were created	
Purchase Order	Supplier	Print
P0000002	Supplier Pty Ltd	Advice
	ОК	

The purchase order advice can be printed from here by selecting the Advice button (Advice)) or it can also be done from *Purchase Orders/Print Purchase*.



	Date: 15/09/201	6	
Supplier: Supplier Pty Ltd	Deliver To: testqbuk		
Address: 1 the Street	57 Oak R	oad	
Suburb State	Kirrawee	, nsw 2232	
Phone:			
Email: jim@manusoft.net			
Purchase Order: 0000020	Quantity	Price	Total Price
Item Number: 1			
Item Code: RM	100 units	£10.00	£1,000.00
Description: A Raw Material Item			
Supplier Item Code: RM-1			
Date Required: 22/09/2016			
Job Assignment:			

Total All Items (ex tax) £1.000.00

Note i. You can email the advice directly by selecting the mail icon on the tool bar.

The next stage is the receipt of goods from the supplier. Select the *Purchase Orders/Receive Purchases* menu item then use the Lookup to recall the Purchase Order. To receive the goods simply select the box adjacent to the Item Code as shown below or you can select the Grid and enter the Goods Receipt dialog to manually enter the receipted quantity (if it's different to the purchase

order quantity). To make it easy to reconcile (next step) you should indicate a delivery reference such as the Delivery Docket Number from the Supplier as has been done in my example.

Image: A longe Purchase Order 000002 Database Entry Quoting Sales Orders Sales Orders Scheduling Purchase Orders Purchase Orders Purchase Orders Print Request For Quote Purchase Received Quantity Store Batch # Delivery Docket Comment 2016-09-15 100 Main 12345 Fint Purchases Print Purchases Print Return Authoristaion Outstanding Purchases Outstanding Purchases Purchase Outstanding Purchases Purchase P														
Quoting Sales Orders Scheduling Purchase Orders Request For Quote Purchase Orders Print Purchase Receive Purchases Return Purchases Print Return Authoristaion	🚮 Home	Purc	ha	se (Order 000002	0		0						Ø 🛛
Sales Orders Item Code Order Quantity Quantity to Receive Store Job Number Scheduling RM 100 0 Main Main Purchase Orders Received Quantity Store Batch # Delivery Docket Comment Request For Quote Purchase Orders Print Purchase Inter Code Main Inter Code Comment Receive Purchases Return Purchases Print Return Authoristaion Inter Code Inter Code<	Database Entry	Rec	ceiv	ved	Other	Notes								
Sales Orders Received Quantity Store Batch # Delivery Docket Comment Purchase Orders 2016-09-15 100 Main 12345 Comment Request For Quote Purchase Orders Print Purchase Received Quantity Store Batch # Delivery Docket Comment Purchase Orders Purchase Orders Print Purchase Print Purchases Print Purchases Print Purchases Print Return Authoristaion Print Return Authoristaion Print Purchase Print Purchase Print Return Authoristaion Print Return Authoristaion	Quoting										Da	te of Receipt:	15/09/2016	i 💙
Scheduling Received Quantity Store Batch # Delivery Docket Comment Purchase Orders 2016-09-15 100 Main 12345 Image: Comment <	Sales Orders			1	Item Code			Order Quanti	ty	Quantity to I	Receive	Store	Job Number	
Purchase Orders Request For Quote 2016-09-15 100 Main 12345 Purchase Orders Print Purchase Receive Purchases Return Purchases Print Return Authoristaion					RM			100		0		Main		
Request For Quote Purchase Orders Print Purchase Receive Purchases Return Purchases Print Return Authoristaion	Scheduling				Received	Quantity	Store		Batc	h #	Delivery (Docket	Comment	
Purchase Orders Print Purchase Receive Purchases Return Purchases Print Return Authoristaion	Purchase Orders				2016-09-15	100	Main				12345			
Print Purchase Receive Purchases Return Purchases Print Return Authoristaion	Request For Quote													
Receive Purchases Return Purchases Print Return Authoristaion	Purchase Orders													
Return Purchases Print Return Authoristaion	Print Purchase													
Print Return Authoristaion	Receive Purchases													
	Return Purchases													
Outstanding Purchases 🥥 OK 😣 Cance	Print Return Authoristaion													
	Outstanding Purchases											0	ок 🧯	Cancel

This transaction is the first that is passed to QuickBooks. The Goods Received traction action in ManuDyn places the material into Stock. In QuickBooks this is recorded in the Goods Received Control account. The value of the goods received is either at Weighted Average Purchase Price (WAPP) price or the Standard Cost (depending on which option is selected in the system setup, and we have to use these "unit prices" because we don't have the Suppliers Invoice (which contains the actual price), at this stage.

We can view this transaction in QuickBooks by looking at the Balance Sheet reports as shown below:



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The next stage of the process is usually the receipt of the Supplier Invoice. To do a Supplier Invoice Reconciliation select the *Accounts Payable/Reconcile Transactions* menu item. The Grid display will show the list of un-reconciled transactions so that it can be selected.

	TESTQBUK	JIM Log Ou	<u>it</u>					
🚰 Home	Reconcile Purch	ase Transactions	to Supplier Invoi	ces				X
Database Entry	5 purchase trans	actions not yet reco	nciled					
Quoting		ction to reconcile it t						_
Sales Orders	Supplier	Telephone	Purchase Order 0000020	Date 2016-09-15	Type Received	Reference 12345	Supplier Item Code RM-1	-
Scheduling								-
Purchase Orders								
Inventory Control								
Accounts Payable								
Receive Invoices								
Receive Credits								
Make Payments								
Print Remittance								
Aged Balance Report							Print O Class	
Reconcile Transactions							Print 😢 Close	

Selecting an item in this Grid will recall the Invoice Number dialog so that the invoice number can be entered, the tax confirmed as shown below:

SS MANUDYN	TEST	QBUK <u>JIM</u>	Log (Dut				
付 Home	Reco	ncile Purchase Tr	ansactio	ns to Supplier Invoices				×
Database Entry		Invoice Nur	nber: 201	.60915A)			
Quoting		Invoice	Date: 15	5/09/2016 😽				
Sales Orders		Cur	rency:	ound Sterling 🜔	Cu	rrency conversion:	L	
Scheduling	_110	Tax Grou e Items for Invoice	up ID: 20	.0% S				
Purchase Orders	#	Purchase Order	Туре	Item Code	Amo	unt Other	Freight	Delivery Docket
Inventory Control	1	0000020	Invoice	RM	1000	0.0000	0.0000	12345
Accounts Payable								
Receive Invoices								
Receive Credits		Commer				Tax Name	Tax Rate	Amount
Make Payments		Commen	11.			SP-20.0	20.0000	200
Print Remittance								
Aged Balance Report					//			
Aged balance Report						Total Invo	ice Amount 1200	

If this information needs to be altered (by adding freight or changing value) then select the item in this grid to recall the Supplier Invoice Details dialog (see below).

This dialog allows the amounts to be altered or freight and other changes added and also provide an opportunity to change the default general ledger assignments.

Item #:	1	
Type:		
	Taxable Item Tax Rate: 20	
Linked to PO#:	0000020	
PO Transaction #:	1	
Delivery Docket:	12345	
Item Code	RM	
Quantity:	100	
Unit Price:	10.000000	
Amount:	1000	Account Code
Other Charges:	0.0000	Account Code
Freight:	0.0000	Account Code
Record Comment		
Delete Mov	e Record Before: 1 - 0000020 0 Mov	e OK Cancel

The general ledger assignments are set automatically by default as per our system setup. This will allow the Perpetual Inventory system to be followed for this purchase. Once the information is confirmed the Goods Receipted will be reconciled to the Supplier Invoice and the latter will be transferred to QuickBooks.

If you now check you QuickBooks system under our supplier there will be a new transaction as shown below:

Sup	pliers					New supplier	•
Unpai	d Last 365 Days			Paid			
	440 PEN BILLS		£240 1 overdue	£O 0 PAID LAST 30 DAYS			
\uparrow	Batch actions 💌	Find a supplier	or company Q			8 C	^
	SUPPLIER - /	COMPANY	PHONE	EMAIL	OPEN BALANCE	AC	CTION
	Supplier Pty Ltd Supplier Pty Ltd				£1,440.00	Make payme	nt 🛛 🕶

There is no change to the P&L at this stage but the Balance Sheet shows our goods received having moved into the Inventory Asset account.

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Manufacturing Software

BALANCE SHEET

As of February 2, 2017

	TOTAL
- ASSETS	
- Current Assets	
→ Accounts receivable	
Accounts receivable	15,510.00
Total Accounts receivable	A\$15,510.00
Finished Goods	0.00
Goods Received	0.00
Inventory	<u>1,000.00</u>
WIP	0.00
Total Current Assets	A\$16,510.00
Total Assets	A\$16,510.00

The Balance Sheet is also adjusted to increase Trade Creditors in line with the invoice amount and the Tax Liability account adjusted for the Input Tax credit.

Now that the raw material goods have been procured we can issue our job to production and start working on it. This is done from the *Scheduling/Job Issue* menu item. The screen display is similar to that shown below once the Job Number has been recalled.

တို့ ။မပဂဂဂ	TEST	QBUK <u>JIM</u> Log	<u>g Out</u>						
🚹 Home	Job Nu	mber: 0000012-1		0					📃 🖉 🔀
Database Entry	Job Is	ssue Notes							
Quoting	Mate	erials to be Issued							
Sales Orders		Quantity to make: 10		Refresh Mate				Job Issue: 1	
Scheduling		Item Code	Issued	To Issue	From Store	In Stock	Qty on Order	Qty Committed	Status
Job Issue		RM	0	100	Main 🗘	100	0	100	Stock Available
Job Progress									
Scheduling									
Priority Work List									
Machine Loading									
Requirements									
Job Cost Report									
Gross Margin Report								_	
Factory Screen								📀 Iss	ue 🛛 🔞 Cancel

As you can see there is stock available so I can "tick" the box adjacent to the Item Code and then select the Issue button to issue the job to production. Select the Issue button then lets see what has happened in both ManuDyn and QuickBooks. In *ManuDyn* the stock has been relieved by the job

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issue and Job Cost information recorded. If you go to *Scheduling/Job Cost Report* and select the print button you can see that material has been accrued against the job.

•	jou cuil see that mater	iai nas seen accraca against	the jee.	
Print Preview				- 👙 🚔 💾 🔯
testqbuk			Operator: jim roach	
Job Cost	Report		Date: 15/09/2016	
	umber LIKE 0000012-1+'%'			
	Job Number: 0000012-1	Part Number: PART		
	Customer: CUSTOMER	Order Number:		
	Description: A Manufactured Part			
Material Items :				
Material	Description	Quantity	Cost(\$)	
RM	A Raw Material Item	100	1,000.00	
Estimat	ed Material Cost: £1,000.00	Estimated Labour Cost: £91.67 (1.83 hours)	Estimated Total Cost: £1,091.67	
То	tal Material Cost: £1,000.00	Total Labour Cost: £.00 (.00 hours)	Total Cost: £1,000.00	

And in QuickBooks the material cost from Inventory to Work-In-Progress as shown below:

Manufacturing Sc BALANCE SHEET As of February 2, 20	т
	τοτα
- ASSETS	
- Current Assets	
- Accounts receivable	
Accounts receivable	15,510.00
Total Accounts receivable	A\$15,510.00
Finished Goods	0.00
Goods Received	0.00
Inventory	0.00
WIP	1,000.00
Total Current Assets	A\$16,510.00
Total Assets	A\$16,510.00

Once the Job has been issued to production the labor time can be recorded against it and the value recorded into Work in Progress in QuickBooks. This is done through *Scheduling/Job Progress* menu item and recall the Job. Select the last operation in the Grid to recall and complete the job and recall the detailed dialog shown below:

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SS MANUDYN	TESTQBUK <u>JIM</u> <u>Log Out</u>	
🚹 Home	Job Number: 0000012-1	- 🛛 🗙
Database Entry	Job Progress Notes	
Quoting	Operations Operation #: 1	
Sales Orders	Work Area: DESPATCH	
Scheduling	Process Description: Pack as in a plastic bag	
Job Issue		
Job Progress	Start Date: 15/09/2016 💟	
Scheduling	Finish Date: 15/09/2016 🗸	
Priority Work List	Process or Setup: O Process Setup	
Machine Loading		
Requirements	Quantity Done: 100	
Job Cost Report	Start 00 00	
Gross Margin Report	Finish 00 00	
Factory Screen		
Purchase Orders	Elapse Time: 1000 Minutes	
Inventory Control	Employee Number:	
Accounts Payable	Comments:	
Accounts Receivable	ОК	Cancel
General Ledger		
Reporting		
System Settings	Restart Job	Close

Enter the full quantity done to complete the job and time (and Employee) and then save the job progress recorded.

If we examine the Job Cost report in *ManuDyn* it shows labour as well as material costs.

Print Preview					a 😂 🛤 🖽
testqbuk				Op	perator: jim roach
Job Cost Re	port				Date: 15/09/2016
Selection Criteria: JobNumber LI	-				
	Number: 0000012-1 ustomer: CUSTOMER		Part Number: PART Order Number:		
-	scription: A Manufactured P	art	Order Number:		
Material Items :					
Material	Description		Quantity		Cost(\$)
RM	A Raw Material Ite	em	100		1,000.00
Labour Items : Date	Work Center	Operation	Quantity	Elapsed Hours (Variance %)	Processed Based Cost(\$)
Employee:GENERAL LABOUR					
15/09/2016 01:00:00	DESPATCH	1	100	16.67 (900 %)	833.33
Estimated Material Cost: £1,0	00.00	Estimated Labour	Cost: £91.67 (1.83 hours)	Estimated Tota	l Cost: £1,091.67
Total Material Cost: £1,0	00.00	Total Labour	Cost: £833.33 (16.67 hours)	Tota	l Cost: £1,833.33

And in QuickBooks the labour cost was added to Work-In-Progress and because the Job Progress was recorded against the last operation the it has been transferred into Finished Goods.

Manufacturing So	ftware
BALANCE SHEET As of February 2, 20	
	τοται
- ASSETS	
- Current Assets	
- Accounts receivable	
Accounts receivable	15,510.00
Total Accounts receivable	A\$15,510.00
Finished Goods	0.00
Goods Received	0.00
Inventory	0.00
WIP	1,050.00
Total Current Assets	A\$16,560.00
Total Assets	A\$16,560.00

To complete the Job the last operation must be processed at which time the Work in Progress will be transferred to Stock in *ManuDyn* and the Finished Goods account in QuickBools. If you go to Stores Tab from *Database Entry/Manufactured Items* for PART the finished quantity has been entered into stock (see below), so we can invoice the goods to our customer.

Semenudyu.	TESTQBUK <u>JIM</u> <u>Log Out</u>		
🚹 Home	Item Code: PART	— 🛯 🗅 🖨 🛈	🗙 Quote 📙 🙆 🔀
Database Entry	Attributes Stores Supplier Sales Siz	tes Materials Routing	Other Notes Attachments
Companies	Store Details		
Material Items	Store	Quantity	Location
Manufactured Items	Main	100	
Item Configurator			
Item Routing Sheet			
Indented Bill Of Material			
Item Schematic Explosion			
Quoting			OK SClose

The Balance Sheet report in QuickBooks is shown below;

Manufacturing Sc BALANCE SHEET As of February 2, 20	r
	τοται
+ ASSETS	1
- Current Assets	
- Accounts receivable	
Accounts receivable	15,510.00
Total Accounts receivable	A\$15,510.00
Finished Goods	1,100.00
Goods Received	0.00
Inventory	0.00
WIP	0.00
Total Current Assets	A\$16,610.00
Total Assets	A\$16,610.00

Invoicing can be done via *Sales Orders/Order Dispatch* or *Accounts Receivable/Invoices* menu items. In either case the procedure is the same. The invoicing dialog is displayed once Sales Order to be dispatched has been indicated as shown below.

	TESTQBUK <u>JIM</u>	Log Out					
😭 Home	Invoice Number: 00000	06	. 🛯 🗍	Despatch Ac	tvice Invoice		님 🖉
Database Entry	Invoice Details Other	Notes A	Attachments				
Quoting	Invoice Details		-	•			
Sales Orders		er: 0000012		U	Invoice Date:		
Order Management		er: CUSTOMER			Delivery Address:	1 The back Lane	
Print Acknowledgement	Contac		ing 🔾		Invoice Address: Currency Conversion:	1	<u> </u>
Job Details	Customer Order Numbe	er:			Tax Group ID:	20.0% S	
Job Ticket					Department:		0
Order Despatch	Item Details						
Print Despatch	# Item	Code	Quantity	Unit Price	Other Charges	Freight	Discount %
Orders On Hand	D PART		100	20.000000	0.0000	0.0000	0.00
Work In Progress							
					Tax Name	Tax Rate	
Scheduling	Involce Comment:				SS-20.0	20.0000	Amount 0
-							•
Purchase Orders					Total Invoice	Amount: £0	
Inventory Control	Last Emailed: Last Modified:					📀 ОК	🔽 Cancel

Then select the Grid or "tick" the box adjacent to the Item Code) to recall the details dialog

Invoice Number: 0000006		Despatch Advice	Invoice	III 🖉 🖾
Item #:	1			
Sales Order:	0000012	1 🕕	Sales Order Item #:	1
Item Code:	PART		1	
Description:	A Manufactured Part			
From Store:	Main (100)		Batch #:	
Quantity:	100 units			
Unit Price:	20.000000 (£ per units)			
Other Charges:	0.0000			
Freight:	0.0000			
Discount Rate:	0.00 % Discount:	0		
Taxable Item:	Tax Rate	20 %	Tax Amount:	400
Weight:	0 Gross weight:	0	Class:	Image: Control of the second secon
Item Comment:				7
Serial Numbers:	Add Serial			
			_	
Delete Mo	ve Record Before: 1	C Move		OK Cancel

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Confirm the details (including tax) and select the OK button to save the invoice

If we now go to QuickBooks you will see that the invoice has been transferred as shown below;

	stomer F	-							Edit	New transaction
dd n	mer Pty Ltd	1 the Street	t, Suburb, Si	tate						£2,880.00
										£0.00 overdue
E.	ransaction L		istomer Deta	ails						
	Batch actio	ns ▼ F	ilter 🔻		BALANCE	TOTAL BEFORE	VAT	TOTAL	STATUS	ම් ඩ සි
E.				DUE DATE 15/09/2016	BALANCE £480.00	TOTAL BEFORE V £400.00	VAT 00.083	τοται £480.00	STATUS Open	ACTIO Receive payment

And checking the Profit and Loss and Balance Sheet report will demonstrate the changes as a result of the Customer Invoice.

Manufacturing Software UK Limited PROFIT AND LOSS

1 January - 15 September, 2016

Manufacturing Software UK Limited

BALANCE SHEET As of September 15, 2016

Income Sales Total Income Cost of Sales Cost of Sales - Direct Expenses Cost of Sales - Labour Cost of Sales - Materials Total Cost of Sales	2,400.00 £2,400.00 200.00 833.33 £1,000.00
Total Income Cost of Sales Cost of Sales - Direct Expenses Cost of Sales - Labour Cost of Sales - Materials	£2,400.00 200.00 833.33
Cost of Sales Cost of Sales - Direct Expenses Cost of Sales - Labour Cost of Sales - Materials	200.00 833.33
Cost of Sales - Direct Expenses Cost of Sales - Labour Cost of Sales - Materials	833.33
Cost of Sales - Labour Cost of Sales - Materials	833.33
Cost of Sales - Materials	
	£1,000.00
Total Cost of Sales	
	£2,063.33
Gross Profit	£ 3 16.66
Expenses	
Total Expenses	
Net Operating Income	£ 3 16.66
Net Income	£ 3 16.66
<u>-</u> .	

7	, T (, JATC
Fixed Asset		
Total Fixed Asset		
Current Assets		
Finished Goods Stock		0.00
Inventory Stock		0.00
Work In Progress		0.00
Total Current Assets	£	0.00
Debtors		
Debtors	2,	880.00
Total Debtors	£2,	880.00
Net current assets	£2,	880.00
Creditors: amounts falling due within one year		
Trade Creditors		
Creditors	1,	440.00
Total Trade Creditors	£1,	440.00
Current Liabilities		
VAT Control		240.00
Total Current Liabilities	£	240.00
Total Creditors: amounts falling due within one year	£1,	680.00
Net current assets (liabilities)	£2,	200.00
Total assets less current liabilities	£2,	200.00
Total net assets (liabilities)	£2,	200.00
Capital and Reserves		
Retained Earnings		
Profit for the year	2,	200.00
Total Capital and Reserves	£2,	200.00

Correcting Link Errors

We have added a *Audit and Repair* facility in ManuDyn which allows discrepancies between the two system concerning Vendor Bills, Customer Invoices, and Cost of Goods Sold and the Inventory accounts, to be identified and corrected. This facility is accessed via the General Ledger/Accounting Link menu. The initial screen display is shown below:

	TESTMS <u>JIM</u>	Log Out			
🚹 Home	Vendor Bill	Date: 16/09/2016	V Finish Date: Null	View	×
Database Entry					
Quoting					
Sales Orders					
Scheduling					
Purchase Orders					
Inventory Control					
Accounts Payable					
Accounts Receivable					
General Ledger					
Chart Of Accounts					
Export Transactions					
Accounting Link					
Reporting					
System Settings					

First the transaction type needs to be selected and then the date rage set. The select the View button.

Note i. Do not set a date range that is too large as may generate a report with an excessively large number of transactions. This will cause the system to appear to "lock up". It will eventually become "un-locked" as the processing completes but probably not before your patience is exhausted.

A screen display similar to that shown below will appear:

Print Preview						a 🖻 🔁
ManuDyn					QuickBooks	
Vendor	Bill	Date	Amount		Date	Amount
Supplier Pty Ltd	20160811	2016-08-11	100.00	SEND	2016-08-11	0
Supplier Pty Ltd	20160811A	2016-08-11	-50.00	SEND		
Supplier Pty Ltd	SUP54321	2016-08-11	2000.00	SEND		
Vendor Number 1 Pty Ltd	20160819	2016-08-19	2110.00	SEND	2016-08-19	2110
Vendor Number 1 Pty Ltd	20160822	2016-08-22	2200.00	SEND	2016-08-22	2200
Vendor Number 1 Pty Ltd	20160822A	2016-08-22	1000.00	SEND	2016-08-22	1000

In my example I have 3 discrepancies between the data in ManuDyn and that in QuickBooks. In the first case the transaction is in both system but the amount in QuickBooks is zero. The second 2 transaction are in ManuDyn but not in QuickBooks. To correct this select the "SEND" option for each of the transactions.

A confirmation dialog (see below) will appear indication that the transaction has been "resent" to QuickBooks over-writing the data (if any) that was there.



The corrected transaction will not appear immediately. You have to close the printout and select the View button again to reconstruct (recalculate) the report.

The Invoice and Inventory Adjustments work the same as the Vendor Bills in that the transaction is corrected by "resending" the data to QuickBooks. The Cost of Goods Sold is a little more complex.

Print Preview									a 😂 🔁 🔁 🔁	• 🗵
ManuDyn								QuickBooks		
Customer	Invoice	Date	Invoice Amount	Sales Order	Job Cost	Finished Goods	COGS	Job Cost	Finished Goods	COGS
Customer Pty Ltd	0000001	2016-09-07	400					0	0	C
Customer Pty Ltd	0000001	2016-09-07	400							
Customer Pty Ltd	0000002	2016-09-09	2000					0	0	C
Customer Pty Ltd	0000002	2016-09-09	2000							
Customer Pty Ltd	0000003	2016-09-10	2000	0000002-1	1000	1000.00	1000.00	1000	1000	1000
Customer Pty Ltd	0000004	2016-09-14	1500	000003-1	2250	2250.00	2250.00	2250	2250	2250
Customer Pty Ltd	0000005	2016-09-15	400					0	0	(
Customer Pty Ltd	0000006	2016-09-15	2000	0000012-1	1000	1000.00	1000.00	1000	1000.00	1000
New Customer Pty Ltd	0000007	2016-09-16	1000					0	0	C
New Customer Pty Ltd	0000008	2016-09-16	2000	0000013-1	1000	1000.00	0.00	1000	1000	C
New Customer Pty Ltd	0000009	2016-09-16	2000	0000014-1	1000	2666.66	0.00	1000	2666.66	(
Report Total					6250	7916.66	4250.00	6250	7916.66	4250

The items in "red" represent discrepancies and those that are underlined needs to be corrected by selecting the underlined link. For the first item (invoice 8) the Cost of Goods Sold does not match the invoice. Selecting this item will adjust this in both ManuDyn and QuickBooks as shown below:

Print Preview									a 😂 🛱 🛱	· 🔼
ManuDyn								QuickBooks		
Customer	Invoice	Date	Invoice Amount	Sales Order	Job Cost	Finished Goods	COGS	Job Cost	Finished Goods	COGS
Customer Pty Ltd	0000001	2016-09-07	400					0	0	0
Customer Pty Ltd	0000001	2016-09-07	400							
Customer Pty Ltd	0000002	2016-09-09	2000					0	0	0
Customer Pty Ltd	0000002	2016-09-09	2000							
Customer Pty Ltd	0000003	2016-09-10	2000	0000002-1	1000	1000.00	1000.00	1000	1000	1000
Customer Pty Ltd	0000004	2016-09-14	1500	0000003-1	2250	2250.00	2250.00	2250	2250	2250
Customer Pty Ltd	0000005	2016-09-15	400					0	0	0
Customer Pty Ltd	0000006	2016-09-15	2000	0000012-1	1000	1000.00	1000.00	1000	1000.00	1000
New Customer Pty Ltd	0000007	2016-09-16	1000					0	0	0
New Customer Pty Ltd	0000008	2016-09-16	2000	0000013-1	1000	1000.00	1000.00	1000	1000	1000
New Customer Pty Ltd	0000009	2016-09-16	2000	0000014-1	1000	2666.66	0.00	1000	2666.66	0
Report Total					6250	7916.66	5250.00	6250	7916.66	5250

Note i. You will need to exit out of the report and select the View button to regenerate it in order to view the changes.

Each highlighted item needs to be selected in order for the system to recalculate and make the necessary corrections.

Generally these discrepancies should be rare as they represent some serious loss of contact between the systems during data transfer. If your internet reception is poor you may see a greater incidence of this behavior.

Concluding Remarks

The 12-point summary below covers the entire setup and operation of the **QuickBooks® Online** accounting link with **ManuDyn**;

- a) Complete QuickBooks setup;
- a) Add Inventory, Work-In-Progress and Finished Goods accounts (and others as appropriate to the Chart of Accounts).
- b) Disable Track Quantity on Hand (*Setup Cog, Company Settings/Sales/Product & Services*) so Perpetual Inventory can be progressed from ManuDyn.
- c) Ensure the "Track Stock Quantity on Hand" option is disabled if you intend to run Perpetual Inventory.

Then in *ManuDyn* do the following:

- b) Set **Default Tax Groups** for Sales & Purchases and set the **Tax Type** (System Setting/General Options-Option tab)
- c) Set **Income, Expenses & Balance Sheet defaults** (*System Setting/General Options-Accounts tab*). Activate the "Add Labour Cost to Manufactured Items" is operating Perpetual Inventory. If you leave an account category "blank" it will be disabled.
- d) **Created Company** in *ManuDyn* and set **Tax Groups** against Invoice & Delivery Addresses (*Database Entry/Company-Address tab*). Note the Company Name in *ManuDyn* is code in *QuickBooks*
- e) Create Material Items in *ManuDyn* and set specific general ledger assignments only for Expense Purchase items (*Database Entry/Material Items-Supplier tab*). Note do not set specific GL assignments for raw material purchases as they are a "Cost of Goods Sold" item and not an Expense item. The raw material purchases are assigned initially to the Inventory account when reconciled (see point 9 below).
- f) **Create Manufactured Items** in *ManuDyn* and set **specific general ledger assignments** for **Sales (Invoice) items only** (*Database Entry/Material Items-Sales tab*).
- g) Sales Order entry in ManuDyn creates the material requirements.
- h) Raise **Purchase Order** for requirements and **receive goods** in Manudyn (*Purchase Orders/Receipt Purchases*). Note the transaction should include a Delivery Docket Reference.
- i) **Reconcile Supplier Invoice** in *ManuDyn* (*Accounts Payable/Reconcile Transactions*). In QuickBooks when the Goods Received are:
- a) For **Expense items** the Expense account is increased and the Tax Liability account decreased, balanced by Accounts Payable (Trade Creditors).
- b) **Raw Material purchases** the Inventory Stock account is increased and the Tax Liability account decreased, balanced by Accounts Payable (Trade Creditors).
- j) **Issue Job to production** (Scheduling/Job Issue). The Inventory Stock account is decreased balanced by an increase in the Work-In-Progress account.
- k) **Complete Job** by indication last operation is done (*Scheduling/Job Progress* or *Scheduling/Factory Screen*). Work-In-Progress account is decreased balanced by an increase in the Finished Goods account.
- 1) **Invoice Sales Order** (*Sales Orders/Order Despatch* or *Accounts Receivable/Invoice*). Two things happen in *QuickBooks*, namely:
- a) Income Sales account and Tax Liability account increased in balanced by Accounts Receivable (Trade Debtors).
- b) Finished Goods account decreased balanced by an increase in Cost of Goods Sold account.

That concludes this seminar illustrating the setup and operation of the *ManuDyn* link with QuickBooks on line.

ManuDyn also links with the QuickBooks desktop addition. The setup and operational instructions for that system and other videos relating to the online link are contained in a series of Video Tutorials Series, the links to which are shown below:

Perpetual Inventory QuickBooks Online (Part 1): <u>https://www.youtube.com/watch?v=euJhrcO8LXc</u> Perpetual Inventory (Online Part 2): <u>https://www.youtube.com/watch?v=XWW6ZE1LSGE</u> Weekly Time Employee Sheets in QuickBooks Online: <u>https://www.youtube.com/watch?v=KhpIZWpSEZs</u>

Weekly Time Employee Sheets in QuickBooks Desktop: https://www.youtube.com/watch?v=fgXJl4A64u4

Connecting ManuDyn to Pro, Premier and Enterprise Systems: <u>https://www.youtube.com/watch?v=oHStL-8EVcU</u>

Perpetual Inventory QuickBooks Pro, Premier and Enterprise Systems: <u>https://www.youtube.com/watch?v=TTbfW6WQT1U</u>

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