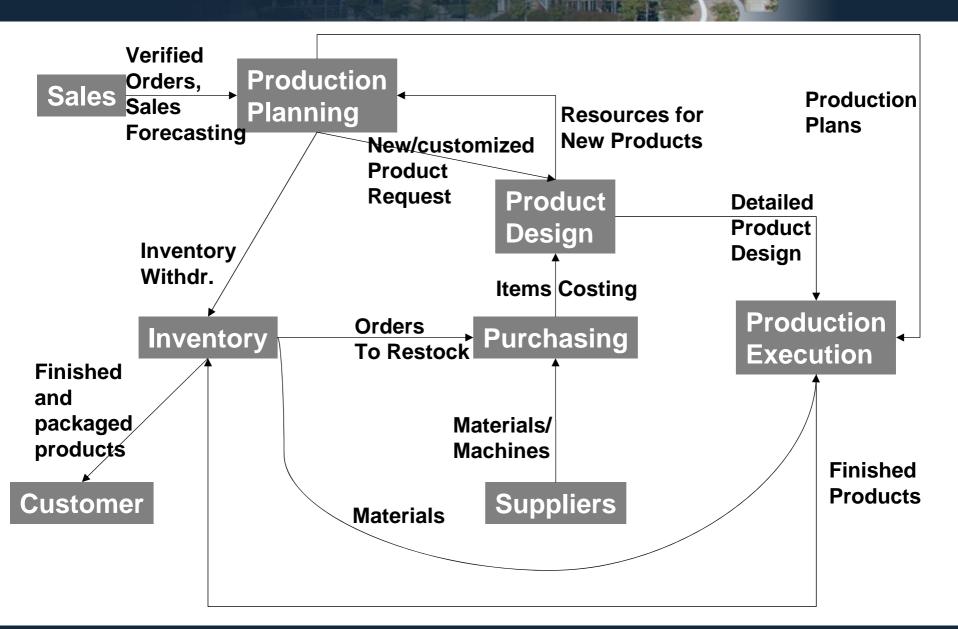


ERP Course: Production and Materials Management Reading: Chapter 6 from Mary Sumner

Peter Dolog dolog [at] cs [dot] aau [dot] dk 5.2.47 Information Systems September 19, 2007





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Material Requirements Planning

Identify stock that planned production calls for Determine the lead time to get the stock from suppliers Calculate safety stock levels Calculate the most cost-effective order quantities Produce purchase order for needed stock items in the right ammount



Inventory

Goods and Material available at stock for use Three kinds (for sales):

- Raw materials
- Work in Process Items
- Finished Goods

Some companies also fixed assets (not directly used for sales) Stored in warehouses or shops for customers Managed and identified through the stock keeping units (SKUs)



SKU

Is an identifier used for systematic tracking of products and services offered

- It is attached to a billable item:
 - physical (item, variant, product line, bundle)
 - service, fee or attachment

Different for each variant or packaging of the same product



Inventory Costs

Inventory is an asset on the company balance sheet Additional costs:

- Space to store (e.g. rent)
- Insurance
- Utilities
- Different inventory depriation schemes depending on a country law

These costs can be $1/3 - \frac{1}{2}$ of the price

Tradeoff: to stock to little and to much

Some companies store more to inflate their apparent asset value



Opportunity Costs

Costs connected with lost opportunity to sell it Need not to be assessed in terms of monetary value



Inventory Expenditures

When sold, the value of the inventory decreases Usually value per item First comes first goes for sales Last comes last goes sales

• Lower income, lower taxes



Inventory in Navision

Item Journal – connection to sales, paurchases
BOM Journal – bills of materials
Item reclassification journal – shifting items between locations and bins
Physical inventory journal – to maintain real values and physical locations of items

Revaluation journal – to change values of items



Warehouse Activities

Bin contents management Receipts Shipments Product orders to manufacture Restock/Purchase orders Transfer orders Item movements and transfers



Resource Planning

Pricing for unit of work Price/Profit calculation Resource capacities Allocation to jobs



Capacity Planning

To plan personnel, space, machines, and other production facilities to meet production goals Requires precise information about human resources, BOM, goods-in-processs inventories, finished goods, lot sizes, status of raw materials, orders in the plant, lead time for orders

Master production schedule from sales forecast Product design and development information systems



Strategies for Capacity Planning

Basic capacity plan includes number of workers, machines, shifts, utilization, and efficiency
Tries to deal with differences caused by customer demands and under/over utilized resources
Lead strategy (based on new customers)
Lag strategy (based on reaching maximum capacity)
Match strategy (based on tracking)



Production

Set of customer orders which require products
They issue a request for materials, human resources and machines to perform the production
The production is based on BOM, resource allocation and work and machine centers utilization
The activities in the production results from a product design
The quantities, resource allocation and capacity estimation results from customer orders and sales forecasts



Production Planning

Production forecasts Planning worksheets Order planning Requisition worksheets Subcontracting



Production Forecasts

How many and which products are planed and in which quantities?How much does it cost?Where to get the parts from?



Further plans

Purcahse orders Subcontracting orders Decomposition to capacity, resource and warehouse plans Decomposition into BOM Routing in the production between work centers and warehousing (production process)



Bill of Material (BOM)

Describes a product in terms of its parts and assemblies This includes also packaging and labels Hierarchy with references to other BOMs Important for parchasing and configuration Different types of BOMs (engineering BOM, manufacturing BOM, ordered BOM, ...)

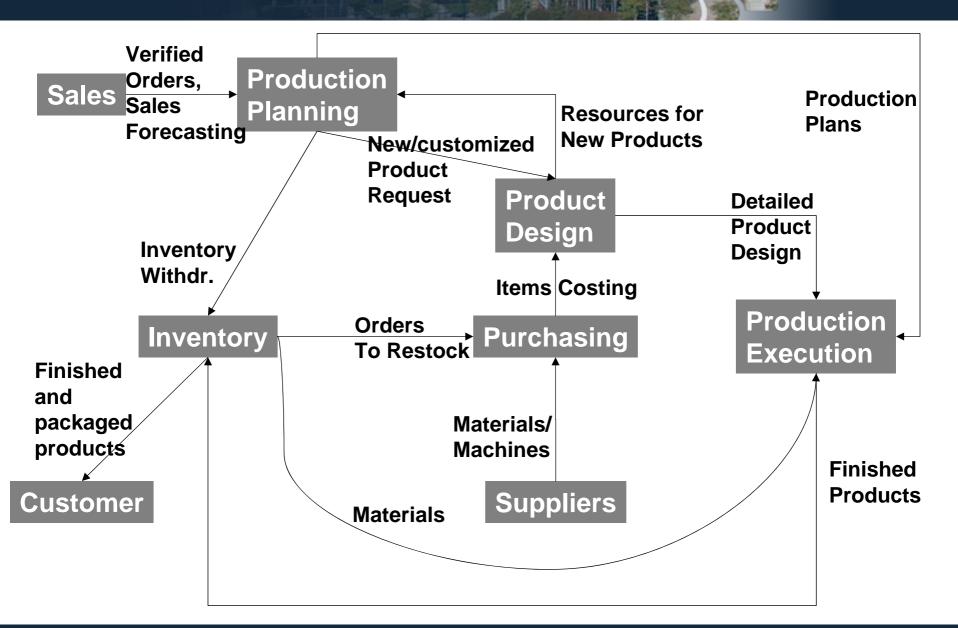
Different ways to display it (ident, matrix, modular, ...)



Production execution

Planned vs. real production time Measuring and controling activities at the manufacturing floor Observing productivity and quality Observing consumption and output Feedback to production and planning Adjustments according to changes in sales

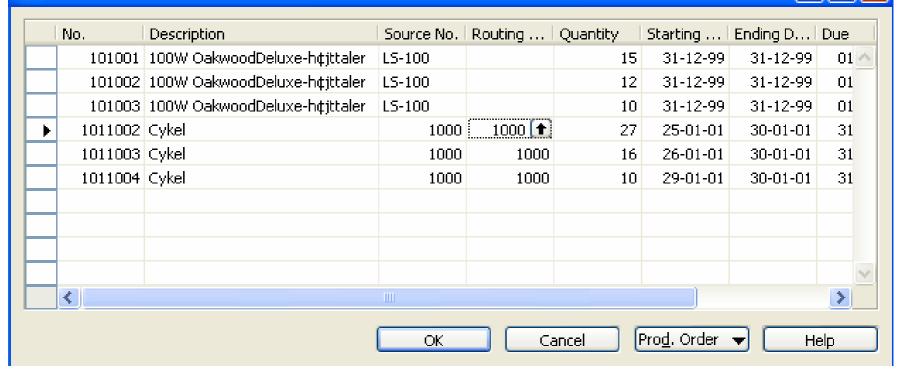




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🗰 Released - Production Order List





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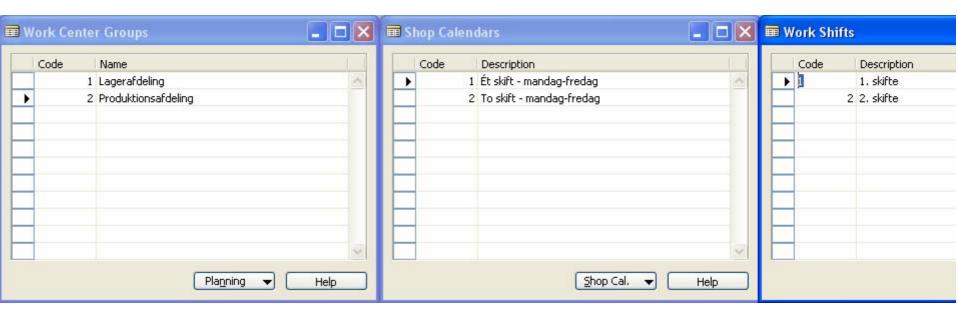
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🗰 Machine Center List



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	220	Pakkebord 2	200	1	100	PAKKEB	
	230	Pakkemaskine	200	1	100	PAKKEM	≣
	310	Malekabine	300	1	100	MALEKA	
	320	Malerobot	300	1	100	MALERO	
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IN KVALITETSMYBLER,8 AP Montering af 8 arbejdspladser - Job Budget

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4-MONT			R.,	LIFT	01-02-01	M¢bel-lift	8	0,00	0,00	0,00	2,500,00	20.000,00	
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4-MONT			I	1908-S	01-02-01	LONDON Drejestol, blå	8	823,00	823,00	6.584,00	1.056,00	8.448,00	
4-MONT			I	1928-W	01-02-01	ST.MORITZ Reol med skuffer	4	1.644,00	1.644,00	6.576,00	2,929,00	11.716,00	
4-MONT			I	1964-S	01-02-01	TOKYO Gæstestol, blå	3	835,00	835,00	2.505,00	1.071,00	3.213,00	
4-MONT			I	1976-W	01-02-01	INNSBRUCK Reol med træd¢r	4	1.289,00	1.289,00	5.156,00	2,193,00	8.772,00	
4-MONT			I	1996-S	01-02-01	ATLANTA Whiteboard, basis	3	6.055,00	6.055,00	18.165,00	7.763,00	23.289,00	
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1150 Fornav							
1151 Forhjuls	aksel						
1155 Forlygte	holder						
1160 Dæk							×
		<				>	

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🗉 1000 Cykel - Item Card	
General Invoicing Replenishment Planning Foreign Trade	Item Tracking E - Commerce Warehouse
No	Search Description CYKEL
Description	Inventory
Base Unit of Measure STK	Qty, on Purch. Order 0
Bill of Materials	Qty. on Prod. Order 44
Shelf No	Qty. on Component Lines 0
Automatic Ext. Texts	Qty. on Sales Order 104
	Qty. on Service Order 0
Created From Nonstoc	
Item Category Code	Service Item Group
Product Group Code 主	Blocked
	Last Date Modified 25-10-04
Item 🔻 Sales 🔻	Purchases V Functions V Help
1000 Cykel - Production BOM	
General	
General No	Search Name CYKEL
General No	Search Name CYKEL
No	Search Name CYKEL
General No 1000 Cykel Unit of Measure Code STK	Search Name CYKEL Version Nos. T Active Version. T
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General No	Search Name CYKEL Version Nos. T Active Version. T Last Date Modified 25-10-04 Quantity Unit of Meas Scra Routing 1 STK 0
General No	Search Name CYKEL Version Nos. • Active Version. • Last Date Modified 25-10-04 Quantity Unit of Meas Scra Routing 1 STK 0 1 STK 0
General No 1000 Description Unit of Measure Code Status Status T No. Description I Description I 1100 Forhjul I 1200 Baghjul I 1300 Kædesaml	Search Name Version Nos. Active Version. Last Date Modified Quantity Unit of Meas Scra Routing 1 STK 0
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General No 1000 Description Unit of Measure Code Status Status T No. Description I 1100 Forhjul I I 1100 Forhjul I I 1200 Baghjul I I 1300 Kædesaml I I 1400 Stænkskærm, for I I 1450	Search Name Version Nos. Active Version. Last Date Modified Quantity Unit of Meas Scra Routing Quantity Unit of Meas Str 0 1 STK 0 1 1 STK
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General No	Search Name CYKEL Version Nos. T Active Version. T Last Date Modified 25-10-04 Quantity Unit of Meas Scra Quantity Unit of Meas Scra Quantity Unit of Meas Scra I STK 0 1 STK 0

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	🎟 1000 Cykel - Routing											
	Ger	neral										
No												
Description										Ŧ		
		be			•		Active Ve	ersion				
	Sta	tus	• •	Certifi	ed 💌		Last Dati	e Modified ,	25-10)-04		
		Operatio	T	No.	Description		Setup Time	Run Time	Wait Time	Move Time		
	►	10	₩.	100	Fælg med dæk		110	12	0	0	~	
		20	М.,	120	Kædesamling		15	15	0	0		
		30	М.,	130	Endelig samling		10	20	0	0		
		40	М.,	110	Kontrol		10	8	0	0		
											V	
		<			1111)			>		
	Routing Coperation Functions Help											



Produ	ıktionsplan - Ressourcevisning	
Vis belas	Arbejdscenter/maskincenter	Onsdag Jan 24 , 2001 Fredag Jan 26 , 2001 Søndag Jar 06 12 1800 06 12 1800 06 12 1800 06 12 1800 06 12 1800 06 12 1800 06 12 1800 06 12 1800 06 12 1800 06 12 1800
	Samleafdeling	1011003 ^
	Jesper Ræbild	
	Daniel Goldschmidt	1010005 1011002
<		Produktionsordrevisn. Gem Hjælp

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Shortage List

CRONUS Danmark A/S

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Status	No.	Description		Due Dat	Finished e Date					
ltem No.	Description	Remaining Qty. (Base)			and Schedule uctio Receipt	d Sche Need		Qty. on Purch. Orde	Qty. on Sales Order	Needed Quantity
Released	101001	100W OakwoodD	eluxe-h¢jttaler	01-01-00						
LSU-15	15" 100W basenh	ed i h¢	15	0	-15	D	15	D	D	15
LSU-8	8"100W mellemto	ne i h¢	15	0	-15	D	15	D	D	15
LSU-4	4" 100W diskant i	i h¢jttal	15	0	-15	0	15	D	D	15
FF-100	Frekvensfilter til	LS-100	15	0	-15	0	15	D	D	15
C-100	Kabler til LS-100		15	0	-15	0	15	D	D	15
HS-100	Kabinet LS-100, 0	Dakwoo	15	0	-15	0	15	D	D	15
SPK-100	Pigge til LS-100		60	0	-60	0	60	D	D	60
Released	101002	100W OakwoodD	eluxe-h¢jttaler	01-01-00						
LSU-15	15" 100W basenh	ied i h¢	12	0	-12	0	27	D	D	27
LSU-8	8''100W mellemto	ne i h¢	12	D	-12	0	27	D	D	27
LSU-4	4" 100W diskant i	i h¢jttal	12	0	-12	0	27	D	D	27
FF-100	Frekvensfilter til	LS-100	12	0	-12	0	27	D	D	27

26. September 2006

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