powered by ERPsim

Manufa Extende	cturing ed Game	User: Initial password:	\$_1 to \$_9 ERPSIM	Adapted for Fiori and for SAP GUI with Fiori Visual Theme Activated © ERPsim Lab, HEC Montréal Last Update: July 12, 2021
CALCULATE REQUIREMENTS	ORDER MATERIALS	RELEASE PRODUCTION	PLAN MARKETING BUDGET	MAINTAIN PRICES
MRP Run (MD01)	Create Purchase Orders (ME59N)	Convert Planned Orders (CO41)	Marketing Expense Planning (ZAD	5) Change Price List (VK32)
1 Press Enter or click Execute	1 Execute	1 Run Selection	Enter your daily amount of	1 Open the <i>Prices</i> folder and double click on <i>Price list</i>
Ignore orange warnings		If no planned order: <i>Planned</i>order could not be selected	1 marketing expenditure for each product per area	2 In <i>Distribution channel</i> , enter 10, 12 or 14
Press two more times on <i>Enter</i>	Purchase orders are created	2 Select orders		3 Execute
In the pop-up window, click	If no open requisitions:	3 Convert	2 Save	4 Modify your prices
Continue	No suitable requisitions found	 If conversion fails, click on × to see log 	2 Save	5 Save
STOCK LEVELS	PROCUREMENT TRACKING	PRODUCTION SCHEDULE	PRODUCTION COST	SALES AND MARKET DATA
Inventory Report (ZMB52)	Purchase Order Tracking (ZME2N)	Production Report (ZCOOIS)	Product Cost Planning (ZCK11)	Summary Sales Report (ZVC2)
Shows stock levels for both finished products and raw materials	Shows the details and the status of each purchase order			Shows aggregate daily sales by product
Shows quantities of raw materials	Shows the dates of expected goods	Shows released production orders For each order, the time released,	Shows variable and fixed costs for each finished product	Detailed Sales Report (ZVA05)
reserved for production	delivery	started and finished (or to start and finish if incomplete)	Recalculates costs based on production capacity and productivity level	Shows sales related info such as sales revenue by region
CASH FLOW	Procurement Sourcing (ZME13)	If Target Qty > Conf. Qty	Shows daily amounts of fixed costs	Price Market Report (ZMARKET)
Liquidity Planning (ZFF7B)	Shows the price of each raw material	production is still pending	(overhead, depreciation and S, G & A	
Displays an estimate of your cashflow	sold by vendors			past 5 days

CH	IANGE PRODUCT DESIGN	LO	AN REPA
۷	alidated BOM Change (ZCS02)	G/L A	ccount Post
	Select the material to change by clicking	1 In Jour date	rnal Entry Dat
1	Edit BOM	2	1 st Line
		Account	113300

HEC MONTREAL **ERP SIMULATION GAME** Manufacturing Game

FORECAST SALES

Create Planned Indep. Req. (MD61) Select *Product group* and enter

the following information

Product group: \$\$-F

Enter your forecast quantities

in the 2nd date column

FINANCIAL STATEMENTS Financial Statements (F.01)

In Company Code, enter

your < company code >*

Select ALV Tree Control

GUI step Execute

FIORI step Go

In Statement Version, enter

GUI step

FIORI step

SIM1

1

2

3

4

1

2

3

2 Change quantities and Save

If received error messages, click on Continue to modify the entries

for the coming weeks REPAYMENT **SETUP TIME REDUCTION** Int Posting (FB50) G/L Account Posting (FB50) al Entry Data coloct today's In L Entry Date, select today's

2nd Line

113101

Debit

???

Credit

???

Click on Simulate and then

Post

2	1 st Line	2 nd Line
Account	113300	478000
D/C	Credit	Debit
Amount	???	???

Planning

INCREASE CAPACITY			
G/L Account Posting (FB50)			
1 In <i>Journal Entry Date,</i> select today's date			
2	1 st Line	2 nd Line	
Account	113300	11000	
D/C	Credit	Debit	

???

Click on Simulate and then

Post

Production

???

D/C

3

Amount

Amount

3

Reports



HEC MONTRÉAL ERP SIMULATION GAME Manufacturing Game

Manufacturing Extended Game



500g

1kg

\$\$-F01

\$\$-F11

20% wheat*

1 box / 1 bag*

30% oat*

20% nut*

*minimum

		M
MUCH	P AL	
Blueberi	A deces A deces A deces A deces A deces A deces	
	1kg	

\$\$-F02 \$\$-F12	500g 1kg
20% wheat*	
30% oat*	
20% blueberry*	
1 box / 1 bag*	



Strawberry		
\$\$-F03 \$\$-F13	500g 1kg	
20% wheat* 30% oat* 20% strawberry* 1 box / 1 bag*		
*minimum		

STORAGE CAPACITY AND COSTS

Product type	Current space	Cost per additional 50 000 units*
Finished products	250 000 boxes	€500/day
Raw materials	250 000 kg	€1 000/day
Packaging (bags and boxes)	750 000 units	€100/day

FIXED COSTS (€	paid each 5 days)*
Labor	20 000
Manufacturing overhead	15 000
S, G & A	40 000
Depreciation (Building)	1 250
Depreciation (Equipment)	50 000**
*Billed automatically	

User:		
Initial	password:	

500g

1kg

Raisin

Raisin

\$\$-F04

\$\$-F14

20% wheat*

20% raisins*

1 box / 1 bag*

30% oat*

*minimum



\$_1 to \$_9

ERPSIM

Original	
\$\$-F05 \$\$-F15	500g 1kg
20% wheat* 30% oat* 1 box / 1 bag*	
^s minimum	

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Mixed	
\$\$-F06 \$\$-F16	500g 1kg
20% wheat*	

20% wheat*
30% oat*
30% fruits & nuts**
1 box / 1 bag*
*minimum **At least some of all fruits/nut

PRODUCTION CAPACITY

Capacity (units/day)	24 000
Additional Capacity Cost (€ per 1 000 units)	1 000 000**
Minimum/Maximum Lot Size	16 000/48 000

**Investing in additional capacity will increase equipment depreciation costs

SETUP TIME			
Setup time (hours)	Expense (€)		
8	-		
7	50 000		
6	125 000		
5	250 000		
4	500 000		
3	1 250 000		

CUSTOMERS



DC 10: Hypermarkets Payment Time: 20 days Approximate Market Size €90 000 per team per week



DC 12: Grocery Chains Payment Time: 10-20 days Approximate Market Size €360 000 per team per week



DC 14: Independent Grocers Payment Time: 1-20 days Approximate Market Size €120 000 per team per week

SUPPLIERS		
Lead time (days)	1-5	
Payment time (days)	20	

2/2