Manufacturing Introduction Game

HEC MONTRÉAL — ERP SIMULATION GAME — Manufacturing Game — powered by ERPsim
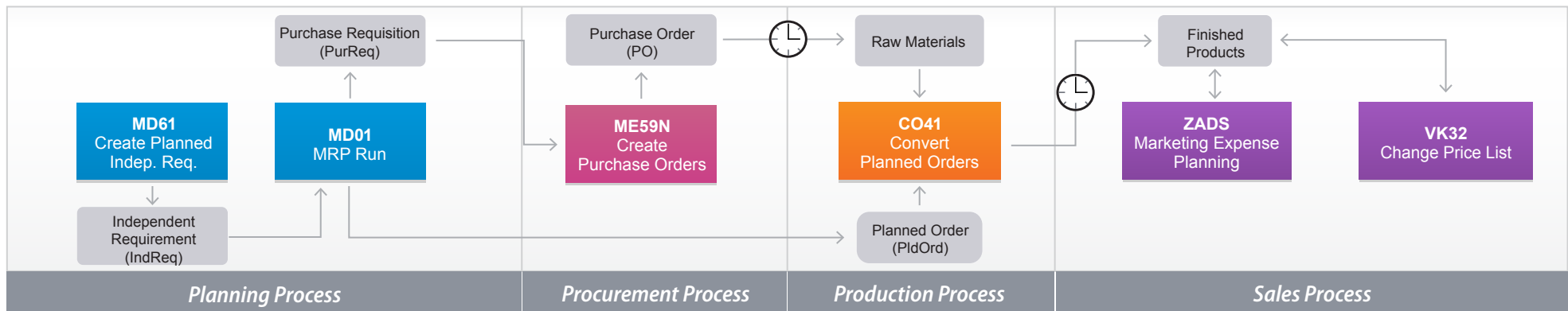
| User: | $_1 to $_9 |
| Initial password: | ERPSIM |

Adapted for Fiori and for SAP GUI with Fiori Visual Theme Activated

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Last Update: July 12, 2021

FORECAST SALES
Create Planned Indep. Req. (MD61)

1. Select *Product group* and enter the following information
   - ⦿ Product group: `$$-F`
2. Continue
3. Enter your forecasted quantities in the 2nd date column
4. Save

CALCULATE REQUIREMENTS
MRP Run (MD01)

1. Press **Enter** or click Execute
2. Ignore orange warnings
   Press two more times on **Enter**
3. In the pop-up window, click Continue

ORDER MATERIALS
Create Purchase Orders (ME59N)

1. Execute
! Purchase orders are created
! If no open requisitions: *No suitable requisitions found*

RELEASE PRODUCTION
Convert Planned Orders (CO41)

1. Run Selection
! If no planned order: *Planned order could not be selected*
2. Select orders
3. Convert
! If conversion fails, click on ✖ to see log

PLAN MARKETING BUDGET
Marketing Expense Planning (ZADS)

1. Enter your daily amount of marketing expenditure for each product per area
2. Save

MAINTAIN PRICES
Change Price List (VK32)

1. Open the *Prices* folder and double click on *Price list*
2. Verify *Distribution Channel* is 12
3. Execute
4. Modify your prices
5. Save

Planning Process	Procurement Process	Production Process	Sales Process

- Purchase Requisition (PurReq)
- Purchase Order (PO)
- Raw Materials
- Finished Products

- **MD61** Create Planned Indep. Req.
- **MD01** MRP Run
- **ME59N** Create Purchase Orders
- **CO41** Convert Planned Orders
- **ZADS** Marketing Expense Planning
- **VK32** Change Price List

- Independent Requirement (IndReq)
- Planned Order (PldOrd)

FINANCIAL STATEMENTS
Financial Statements (F.01)

1. In *Company Code*, enter your <company code>*
2. **GUI step** Select ALV Tree Control
   FIORI step In *Statement Version*, enter SIM1
3. **GUI step** Execute
   FIORI step Go

STOCK LEVELS
Inventory Report (ZMB52)

Shows stock levels for both finished products and raw materials

Shows quantities of raw materials reserved for production

CASH FLOW
Liquidity Planning (ZFF7B)

Displays an estimate of your cashflow for the coming weeks

PROCUREMENT TRACKING
Purchase Order Tracking (ZME2N)

Shows the details and the status of each purchase order

Shows the dates of expected goods delivery

Procurement Sourcing (ZME13)

Shows the price of each raw material sold by vendors

PRODUCTION SCHEDULE
Production Report (ZCOOIS)

Shows released production orders

For each order, the time released, started and finished (or to start and finish if incomplete)

If Target Qty > Conf. Qty production is still pending

PRODUCTION COST
Product Cost Planning (ZCK11)

Shows variable and fixed costs for each finished product

Recalculates costs based on production capacity and productivity level

Shows daily amounts of fixed costs (overhead, depreciation and S, G & A)

SALES AND MARKET DATA
Summary Sales Report (ZVC2)

Shows aggregate daily sales by product

Detailed Sales Report (ZVA05)

Shows sales related info such as sales revenue by region

Price Market Report (ZMARKET)

Shows aggregate market sales data of past 5 days

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*To find your company code, refer to transaction ZORG (Organizational Structure)

| ■ Planning | ■ Procurement | ■ Production | ■ Sales | ■ Reports |

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ERP Muesli Products

Nut

Nut	
$$-F01 $$-F11	500g 1kg
Starting Inventory	30 000 units each

35% wheat
35% oat
30% nut
1 box / 1 bag

Blueberry

Blueberry	
$$-F02 $$-F12	500g 1kg
Starting Inventory	30 000 units each

35% wheat
35% oat
30% blueberry
1 box / 1 bag

Strawberry

Strawberry	
$$-F03 $$-F13	500g 1kg
Starting Inventory	30 000 units each

35% wheat
35% oat
30% strawberry
1 box / 1 bag

Raisin

Raisin	
$$-F04 $$-F14	500g 1kg
Starting Inventory	30 000 units each

35% wheat
35% oat
30% raisins
1 box / 1 bag

Original

Original	
$$-F05 $$-F15	500g 1kg
Starting Inventory	None

50% wheat
50% oat
1 box / 1 bag

Mixed
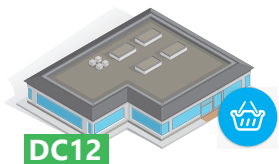
Mixed	
$$-F06 $$-F16	500g 1kg
Starting Inventory	None

30% wheat
30% oat
40% fruits & nuts
1 box / 1 bag

CUSTOMERS

DC 12: Grocery Chains
Payment Time: 10-20 days

Approximate Market Size
€360 000 per team per week

SUPPLIERS

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

PRODUCTION CONSTRAINTS

Capacity (units/day)	16 000
Setup time (hours)	8
Minimum/Maximum Lot Size	16 000/16 000

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	10 000
Manufacturing overhead	7 500
S, G & A	20 000
Depreciation (Building)	1 250
Depreciation (Equipment)	33 333

*Billed automatically

Map

North — DC12 19 Stores
West — DC12 17 Stores
South — DC12 23 Stores