



## Production Planning

### Lesson 3 : Master Data Overview

Note : Kindly Follow the Sequence of Master data : 1. Material master, 2. BOM ,3.Work Center , 4. Routing

Add instructor notes here.

## Lesson Objectives



- After this training module you will be able to:
  - Understand master data and types of master data
  - Understand how to create / change / delete / view Material master data
  - Understand concept & challenges in data migration
  - Understand how to create / change / delete / view Bill of Material
  - Understand how to create / change / delete / view Work center , Routing & Production Version

## Training Agenda



- Master data introduction
- Purpose
- Use
- Challenges
- PP Master Data Overview
- Essentials
- Material Master
- Data Structure of Material Master
- Bill of Material
- Work Center
- Routing

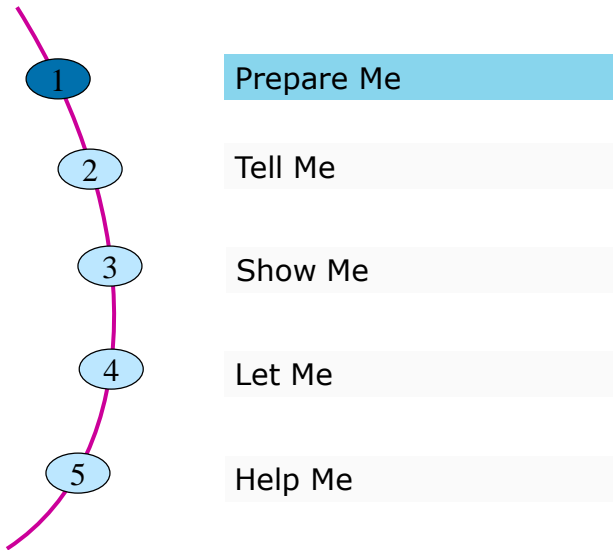
## Training Agenda



Production Version  
Production Resource Tool (PRT)  
References – Table info  
References – T codes

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## Master date Overview



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## Prepare Me



Master data is the group of data which will be reference for any Business records

- Ex: Production Order is prepared by referring Material Master, Bill of Material, Work Centers and Routings

Master Data contains the records that remain in the database over an extended period of time

Master Data is centrally stored (shared across application modules) and processed to eliminate data redundancy

Master data can be manually created in the SAP

LSMW/BDC are commonly used tools for uploading mass master data

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## Purpose



Master data is reference data for any Business process.  
Master data is shared across application modules in R/3.

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## Use



Material Master – This is base for all business process in an Organization

Bill Of Material - Created in Design Dept. /Sales Dept. and referred in Planning and Shop floor for Good Reservation/issue/Receipt. Also used in product costing

Work Centers - Scheduling/Capacity evaluation and costing will be done by use of formula defined in resources. Also used in Plant maintenance

Routing – This is used for Scheduling the production Order

Production Resource Tool – Production is carried out with the help of this. It is not consumed in the process; for eg. Jigs and Fixtures

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## Use



Production Versions – Production versions are used in Sales and Operations Planning (SOP), material requirements planning (MRP), Production order creation, and product costing to select the most suitable task list/recipe and the corresponding Bill of Material/material list

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## Challenges



Master data is the backbone of any system, hence its accuracy is the main criterion for the success of the system

The number of assignment of master data should be logical and meaningful

Master data that is obsolete can be archived

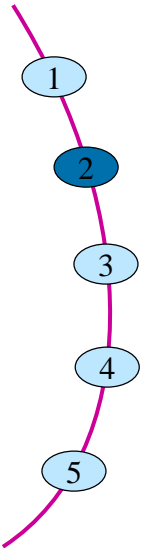
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### Name of the Functionality



1	Prepare Me
2	Tell Me
3	Show Me
4	Let Me
5	Help Me

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## Master data Overview



The next slides shows Process Flow of PP Master data

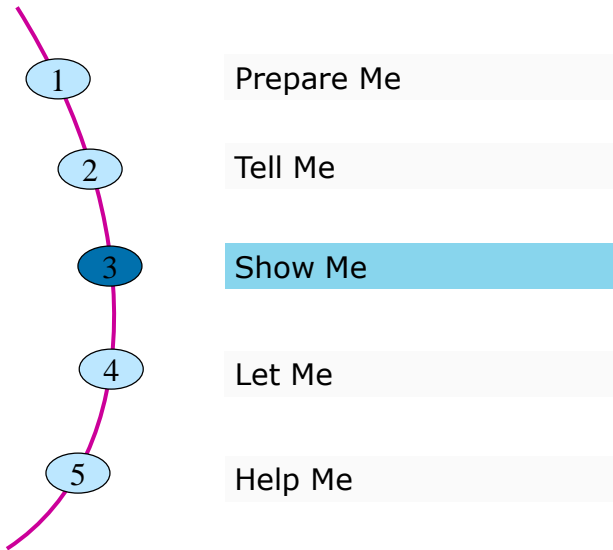
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## Master data overview



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## Essentials



The followings are to be taken care before creating Master data:

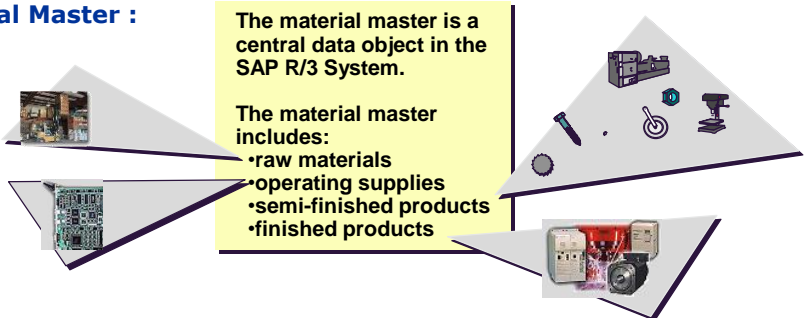
- Number ranges to be defined for Internal numbers
- Code should represent the usage
- Ambiguity to be avoided
- SAP defined data, should not be deleted or modified directly. If required can be copied and renamed to suit the application

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## Master data : Material Master


### Material Master :



The material master is a central data object in the SAP R/3 System.

The material master includes:

- raw materials
- operating supplies
- semi-finished products
- finished products



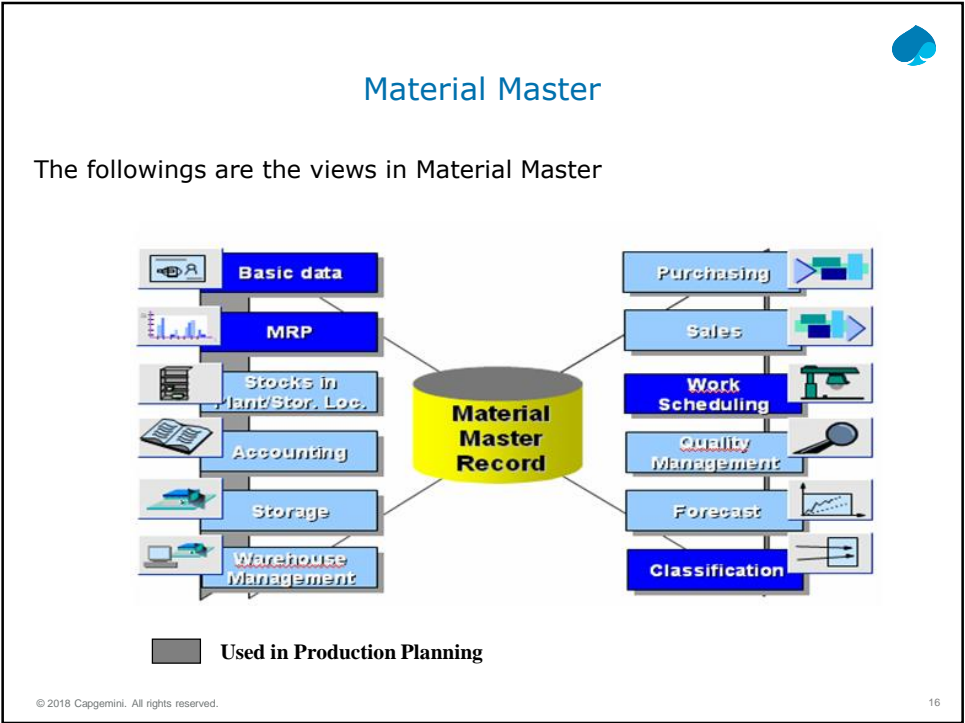
- The material master is a central data object in the SAP R/3 System
- All the information required to manage products and equipment is stored in the material master record
- Each user department has its own view of the material master which permits easy access to and maintenance of data

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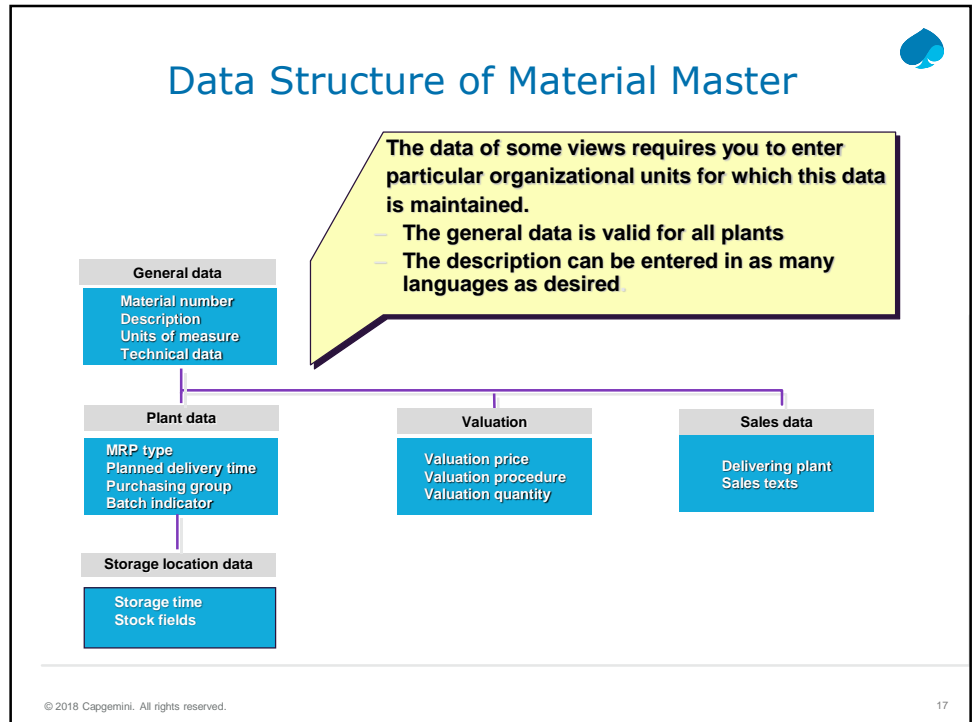
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## Bill of Material

A bill of material is a complete, formally structured list of the components that make up a product or assembly

The list contains a description and object number for each component, together with the quantity and unit of measure

Depending on the industry sector, they can also be called recipes or lists of ingredients and so on.

BOM can be created with or without Plant but mentioning the material and BOM usage is mandatory

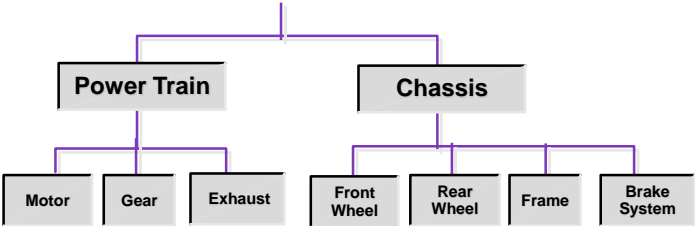
(Note: Material + Plant + BOM usage = Unique BOM No. In case any of these 3 things changes, BOM No. will change)

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# Bill of Material



Example:



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## Bill of Material



### How to create BOM


**Step 1)** From SAP Easy access screen open transaction CS01

Enter parent material for which BOM needs to be created

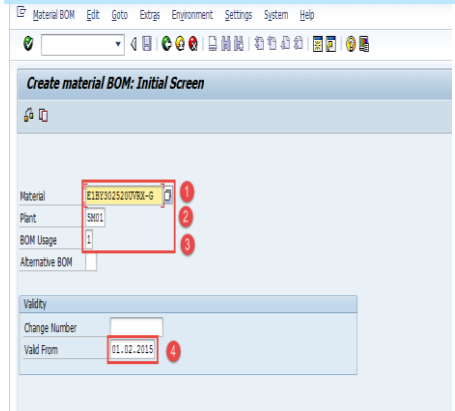
Enter Plant Code

Enter BOM usage = "1" which is used for Creating Production BOM

Enter the valid from the date which means that BOM would be valid from that date

After filling in all the fields, click  or press Enter to go to the next screen

OR ON THE SAP EASY ACCESS SCREEN,  
Choose Logistics → Production → Master Data → Bills of Material → Bill of Material → Material BOM → Create (CS01)



Material BOM Edit Goto Extras Environment Settings System Help

Create material BOM: Initial Screen

Material  1

Plant  2

BOM Usage  3

Alternative BOM

Validity

Change Number

Valid From  4

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# Bill of Material


## How to create BOM

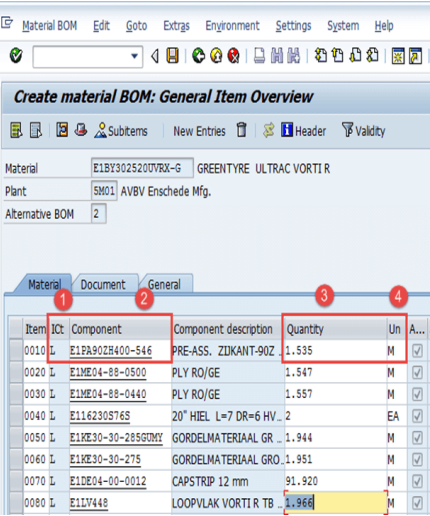
### Step 2) In Next Screen

Enter Item Category as "L" which is used for stock item and could be default also

Enter Component material code in Component Field

Enter Component quantity as shown below

Some information such as description and a basic unit measure of the component will be brought out by the system automatically after clicking  or pressing enter from the keyboard





Item	ICt	Component	Component description	Quantity	Un	A...
0010	L	E1FA902H400-546	PRE-ASS. ZINKANT-90Z	1.535	M	✓
0020	L	E1ME04-88-0500	PLY RO/GE	1.547	M	✓
0030	L	E1ME04-88-0440	PLY RO/GE	1.557	M	✓
0040	L	E116230S76S	20" HIEL L=7 DR=6 HV...	2	EA	✓
0050	L	E1KE30-30-28SGUMY	GORDELMATERIAAL GR	1.944	M	✓
0060	L	E1KE30-30-275	GORDELMATERIAAL GR	1.951	M	✓
0070	L	E1DE04-00-0012	CAPSTRIP 12 mm	91.920	M	✓
0080	L	E1LV448	LOOPVLAK VORTI R TB	1.968	M	✓



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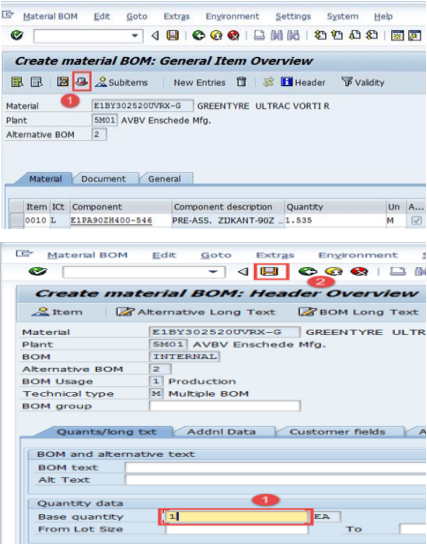
# Bill of Material

## How to create BOM

**Step 3)** In this screen, Click on this icon  to see the BOM header, the system will then show the BOM header screen in the next step

**Step 4)** In the BOM header view, Fill the base quantity of parent material. If this is 1 EA (each), then the component quantity will describe how much is needed to produce 1 item 

Click  to save the new BOM after check, the  Creating BOM for material. message at the lower left corner



The top screenshot shows the 'Create material BOM: General Item Overview' screen. It has tabs for Item, Alternative Long Text, and BOM Long Text. The 'Item' tab is active. Fields include Material (E1BY302520V9K-S), Plant (SM01), and Alternative BOM (2). A red box with the number 1 highlights the 'Header' icon in the top toolbar.

The bottom screenshot shows the 'Create material BOM: Header Overview' screen. It has tabs for Quants/long txt, Addnl Data, and Customer fields. The 'Quants/long txt' tab is active. Fields include BOM text, Alt Text, and Quantity data. The 'Quantity data' section has 'Base quantity' set to 1 and 'From Lot Size' set to EA. A red box with the number 1 highlights the 'Base quantity' field.

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## Bill of Material

### **How to change BOM**

**Step 1)** From SAP Easy access screen open transaction CS02

**OR**

**ON THE SAP EASY ACCESS SCREEN,**

*Choose Logistics → Production → Master Data → Bills of Material → Bill of Material → Material BOM → Change (CS02)*

### **How to display BOM**

**Step 1)** From SAP Easy access screen open transaction CS03

**OR**

**ON THE SAP EASY ACCESS SCREEN,**

*Choose Logistics → Production → Master Data → Bills of Material → Bill of Material → Material BOM → Display (CS03)*

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## Bill of Material



### **How to delete a BOM**

You can delete a BOM in the following ways:

Using the deletion function

Using the deletion flags

Deleting the entire BOM

Deleting individual items

(Note: Deletion at header level removes the entire BOM, whereas deletion at item level removes only the specified item)



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## Work Center



- Work Center is where an operation or activity for a production is carried out within a Plant.
- Represent anything as general as a geographical location, or as specific as a particular machine within a department in a Plant.
- Operations are carried out at a work center
- Work center can be Machine and machine groups, Entire Production lines, Assembly / Repair work centers, Labor and groups of Labor

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## Work Center



Work center is used;

- To calculate the time duration of the operation.
- To calculate the cost of the operation.
- To calculate the capacity requirements

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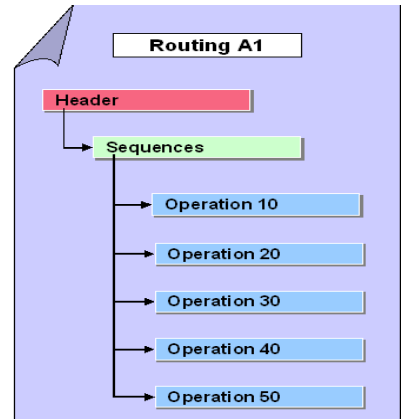
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## Routing



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- Routing describe the sequence of operations required to produce a specific material



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## Routing



- Routings have the information about the operations and the order in which they are carried out, a routing also contains details about the work centers at which they are carried out.
- For each operation, the Work centres, component allocation and tools required to produce the material are maintained in the routing

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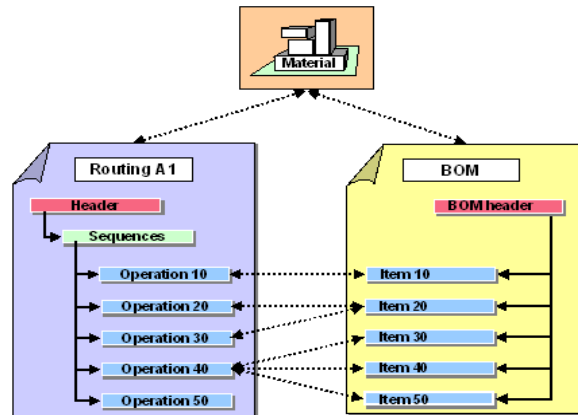
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## Routing



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- Component Allocation to the Operations in the Routing



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## Production Version



- A production version determines which alternative BOM is used together with which task list/master recipe to produce a material or create a master production schedule
- For one material, we can have several production versions for various validity periods and lot-size ranges
- Production versions are used both in discrete manufacturing and process manufacturing.

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## Production Resource Tool (PRT)



PRT can be classified as follows.

**Material** – Any consumable tools, inventory control is necessary.

**Equipment** – Any tools required Maintenance.

**Document** – Any Drawings.

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## PP Master Data Overview



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## PP Master data



- Some exclusive master data, used in Discrete Manufacturing Industries are explained in this session.

Note: For Material Master please refer PP1008 - Material Master - PP Master Data

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## Let Me-PP Master data



### ■ Material Master

- T code **MM01** to **create**
- T code **MM02** to **change**
- T code **MM03** to **display**

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## Let Me-PP Master data



Select the following views:

MRP-1

MRP-2

MRP-3

MRP-4

WORK SCHEDULING

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# Let Me-PP Master data



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Display Material PQR-100 (Finished product)

Additional data

Organizational levels

Basic data 2

MRP 1

MRP 2

MRP 3

MRP 4

Work

Material

PQR-100

4x6 PQR Panel

Plant

3100

Chicago

General Data

Base Unit of Measure

K6

Kilogram

MRP group

Purchasing Group

ABC Indicator

Plant-sp.matl status

Valid from

MRP procedure

MRP Type

PD

MRP

Reorder Point

0

Planning time fence

0

Planning cycle

MRP Controller

001

Lot size data

Lot size

EX

Lot-for-lot order quantity

Minimum Lot Size

0

Maximum Lot Size

0

Maximum stock level

0

Assembly scrap (%)

0,00

Takt time

0

Rounding Profile

Rounding value

0

Unit of Measure Grp

MRP areas

☐ MRP area exists

MRP areas

**MRP 1**  
Here we define MRP procedure and Lot size calculation

Add the notes here.

# Let Me-PP Master data



MRP 1MRP 2MRP 3MRP 4Work scheduling

MaterialPQR-100

Plant3100

4x6 PQR Panel

Chicago

Procurement

Procurement typeE

Special procurement

Quota arr. usage

Backflush

JIT delivery sched.

☒ Co-product

☐ Bulk Material

Batch entry

Prod. stor. location

Default supply area

Storage loc. for EP

Stock det. grp

Joint production

Scheduling

In-house production0 days

OR Processing Time0 days

SchedMargin key000

Planned Deliv. Time0 days

Planning calendar

Net requirements calculation

Safety Stock0

Min safety stock0

Safety time ind.

STime period profile

Service level (%)0,0

Coverage profile

Safety time/fact.cov.0 days

## MRP 2

Here we define  
1.Procurment–  
In-house or  
external  
procurement or  
Both for material  
2.Scheduling- In-  
house production  
time, planned  
delivery timer  
processing time  
and Scheduling  
Margin Key

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## Let Me-PP Master data



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The screenshot displays the SAP MRP 3 Master Data configuration interface. The top navigation bar includes tabs for MRP 2, MRP 3 (selected), MRP 4, Work scheduling, and Accounting 1. The main header shows the Material (PQR-100), Plant (3100), and Location (Chicago). The configuration is divided into several sections:

- Forecast Requirements:** Includes fields for Period Indicator (M), Fiscal Year Variant, and Splitting Indicator.
- Planning:** Includes fields for Strategy group, Consumption mode, Fwd consumption per. (0), Bwd consumption per. (0), Planning material, Planning plant, and Planning matl BUnit.
- Availability check:** Includes fields for Availability check (02), Cross-project, and Tot. repl. lead time (0 days).
- Plant-specific configuration:** Includes a section for ConfigurableMaterial with checkboxes for Variant and Planning variant, and buttons for Configure variant and Configure planning variant.

### MRP 3

Here we define

1. Forecast requirements
2. Planning- Strategy group for make to stock or make to order strategy
3. Consumption mode
4. Availability check

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# Let Me-PP Master data



MRP 3 MRP 4 Work scheduling Accounting 1 Accounting 2

Material PQR-100 4x6 PQR Panel  
Plant 3100 Chicago

**BOM explosion/dependent requirements**

Selection method ☐ Component scrap (%) 0,00  
Individual/coll. ☐ Requirements group ☐  
☒ Version Indicator ☒ ProdVersions MRP dep.requirements ☐

**Discontinued parts**

Discontin. ind. ☐ Eff-out ☐ Follow-up matl ☐

**Repetitive manufacturing / assembly / deployment strategy**

☐ Repetitive mfg REM profile ☐ Action control ☐  
Fair share rule ☐ Push distribution ☐ Deployment horizon 0

Average plant stock Material memo ☐ Material memo exists

## MRP 4

Here we define  
1.BOM explosion  
2.Dependent requirements  
3.Discontinued Parts  
4.Repetitive manufacturing if required.

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# Let Me-PP Master data



MRP 4 Work scheduling Accounting 1 Accounting 2 Costing 1

Material: PQR-100 4x6 PQR Panel  
Plant: 3100 Chicago

**General Data**

Base Unit of Measure	KG	Kilogram	Unit of issue	
Production unit			P-S matl status	Valid from
Production scheduler			Prod.stor.loc.	
Prod.Sched.Profile			Mat. Grouping	
Serial no. profile		SerLevel	Overall profile	
<input type="checkbox"/> Insp.stock		<input type="checkbox"/> Critical Part	<input checked="" type="checkbox"/> Version Indicator	<input type="checkbox"/> ProdVersions
<input type="checkbox"/> OB Management		<input type="checkbox"/> Batch rec. req.	<input type="checkbox"/> Batch entry	<input type="checkbox"/> BatchManagement
			OB ref. matrial	

**Tolerance data**

Underdely.tol.	0,0	percent	Overdely.tol.	0,0	percent	<input type="checkbox"/> Unlimited
----------------	-----	---------	---------------	-----	---------	------------------------------------

**In-house production time in days**

Lot size dependent			Lot size independent	
Setup time	0,00	Interoperation	0,00	InhseProdTime
Processing time	0,00	Base quantity	0	

## Work scheduling

Here we define

- 1.General data for production scheduler, production scheduling profile
- 2.Tolerance data
- 3.In-House production time in days

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## Let Me-PP Master data



- Bill of Materials
  - T code **CS01** to **create**
  - T code **CS02** to **change**
  - T code **CS03** to **display**

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# Let Me-PP Master data



Material BOM Edit Goto Extras Environment Settings System Help

Display material BOM: General Item Overview

Subitems New Entries Header Validity

Material TEST-100 1st Material master

Plant 1000 EnergyPath Plant 1

Alternative BOM 1

Material Document General

Item	ICt	Component	Component description	Quantity	Un	A...	Sl	Valid From	Valid to	Change No.	P...	SortStrng	Item ID	Chg No.	T
0010	L	TEST-101	Test Material master-Raw .10		EA			02/02/2015	12/31/9999				00000001		
0020	L	TEST-102	Test Material master-Raw .15		EA			02/02/2015	12/31/9999				00000002		
0030	L	TEST-103	Test Material master-Raw .20		EA			02/02/2015	12/31/9999				00000003		

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## Let Me-PP Master data



- Work Centers

- T code **CR01** to **create**
- T code **CR02** to **change**
- T code **CR03** to **display**

Views are shown in next following slides.

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## Let Me-PP Master data



**Display Work Center: Basic Data**

Hierarchy

Plant:  EnergyPath Plant 1  
Work center:  Test Work Center

**Basic Data** | Default Values | Capacities | Scheduling | Costing | Technology

**General Data**

Work Center Category	0001	Machine
Person responsible	001	Work center supervisor
Location	<input type="text"/>	
QOR system	<input type="text"/>	
Supply Area	<input type="text"/>	
Usage	001	only routings
<input type="checkbox"/> Backflush		

**Standard Value Maintenance**

Standard value key	SAP1	Normal production
--------------------	------	-------------------

**Standard Values Overview**

Key Word	Rule for Maint.	K...	Description
Setup	should be en. ▾		
Machine	should be en. ▾		
Labor	should be en. ▾		

**Display Work Center: Default Values**

Hierarchy

Plant:  EnergyPath Plant 1  
Work center:  Test Work Center

**Basic Data** | **Default Values** | Capacities | Scheduling | Costing | Technology

**Operation Default Values**

Control key	PP01	<input type="checkbox"/> Ref. Ind.	Routing/Ref. op. set - internal pro
Standard text key	<input type="checkbox"/> Ref. Ind.		
Suitability	<input type="checkbox"/> Ref. Ind.		
Setup Type Key	<input type="checkbox"/> Ref. Ind.		
Wage Type	<input type="checkbox"/> Ref. Ind.		
Wage group	<input type="checkbox"/> Ref. Ind.		
No. of Time Tickets	0	<input type="checkbox"/> Ref. Ind.	
No. confirm. slips	0	<input type="checkbox"/> Ref. Ind.	Printer <input type="text"/>

**Units of Measurement of Standard Values**

Parameter	S...	Unit Name
Setup		
Machine		
Labor		

Displays...

Admin. data

Classification

Subsystems

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## Let Me-PP Master data



### Display Work Center: Capacity Overview

HRMS Hierarchy

Plant: 1000  
Work center: TEST-WC

EnergyPath Plant 1  
Test Work Center

Basic Data | Default Values | **Capacities** | Scheduling | Costing | Technology

Overview

Capacity category: 001 Machine

Pooled capacity:

Setup formula: SAP005 Prod.: Setup rqmts Formula-Related

Processing formula: SAP006 Prod.: Machine rqmts Formula-Related

Teardown formula: SAP007 Prod.: Labor rqmts Formula-Related

Other formula:

Distribution:

Int. dist. key:

### Display Work Center: Scheduling

HRMS Hierarchy

Plant: 1000  
Work center: TEST-WC

EnergyPath Plant 1  
Test Work Center

Basic Data | Default Values | Capacities | **Scheduling** | Costing | Technology

Scheduling basis

Capacity category: 001 Machine

Capacity:

Execution time

Setup formula:

Processing formula:

Teardown formula:

Other formula:

Interoperation times

Location group:

Std. queue time: 0.000 Min. queue time: 0.000

Dimension and unit of measure of work

Work dimension:

Work unit:

Capacity Form Formula Formula constraints ActCapReqmts

Capacity Form Formula Formula constraints

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# Let Me-PP Master data



**Display Work Center: Cost Center Assignment**

HRMS Hierarchy

Plant: 1000 EnergyPath Plant 1  
Work center: TEST-WC Test Work Center

Basic Data Default Values Capacities Scheduling Costing Technology

Validity  
Start date: 02/02/2015 End Date: 12/31/9999

Link to cost center/activity types  
Controlling Area: 1000 Controlling Area 1000  
Cost Center: 2201 Manufacturing - 3

Activities Overview

Alt. activity descr.	Activity Type	Activity Unit	R...	Form...	Formula description
Setup	3	HR	<input type="checkbox"/>	SAP005	Prod.: Setup rqmts
Machine			<input type="checkbox"/>	SAP006	Prod.: Machine rqmts
Labor			<input type="checkbox"/>	SAP007	Prod.: Labor rqmts

ActType Int.Proc. ☐ ☐

Link to business process  
Business Process ☐ ☐  
Incentive wages ind. ☐ Record Type Group 0

Form. Formula Formula constnts Validities

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## Let Me-PP Master data



### ▪ Routings

- T code **CA01** to **create**
- T code **CA02** to **change**
- T code **CA03** to **display**

Views are shown in next following slides.

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# Let Me-PP Master data



Routing   Edit   Goto   Details   Extras   Environment   System   Help

Display Routing: Header Details

Material TEST-100   Test Material master

Task list

Group 50000042

Group Counter 1

Plant 1000

Test Material master

Long text exists

Production line

Line hierarchy

General data

Deletion flag

Usage 1 Production

Status 4 Released (general)

Planner group

Planning work center

CAPP order

From Lot Size 1 To lot size 99,999,999 EA

Old task list no.

Parameters for dynamic modification/inspection points

Insp. Points

Partial-lot assign. Partial lot assignment according to plant default

Sample-drawing proc.

Dynamic mod. level

Modification rule

Dynamic modification criteria

Material

Customer

Vendor

Manufacturer

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## Let Me-PP Master data



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## Let Me-PP Master data



- Production Version
  - T code **C223 - Production Versions**

Views are shown in next following slides.

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# Let Me-PP Master data



## Production Version: Mass Processing

Selection Conditions

Plant  EnergyPath Plant 1

Material

MRP Controller  Detailed plng

Key date  Rate-based plng

Production line  Rough-Cut Plng

Task List Type Group

Production versions

Plant	Material	Pr...	Text	Lock	M...	P...	C...	Te...	Check date	Valid from	Valid to	From lot size	To lot size	U...	Alt...	B...	Ap...	Detailed...
1000	TEST-100	0001	test	Not...					02/02/2015	02/02/2015	12/31/9999	1.000	1,000.000	EA	1	1		50000042
1000				Not...														

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# Let Me-PP Master data



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Maintain Production Version: Detail Screen

Plant1000EnergyPath Plant 1

MaterialTEST-100Test Material master

Production Version0001test

Check02/02/2015

Production Version

LockNot locked

Assigned Change No.

From lot size1.000

To lot size1.000.000EA

Valid from02/02/2015

Valid to12/31/9999

Task lists

Detailed planningRouting

Group50000042

Group Counter1

Check stat

Rate-based planning

Rough-Cut Planning

Bill of Material

Alternative BOM1

BOM Usage1

Apportionment Struct

Repetitive Manufacturing

REM allowed

Production line

Planning ID

Other Data

Other header mat.

Issue stor. location

Distribution Key

Receiv. location

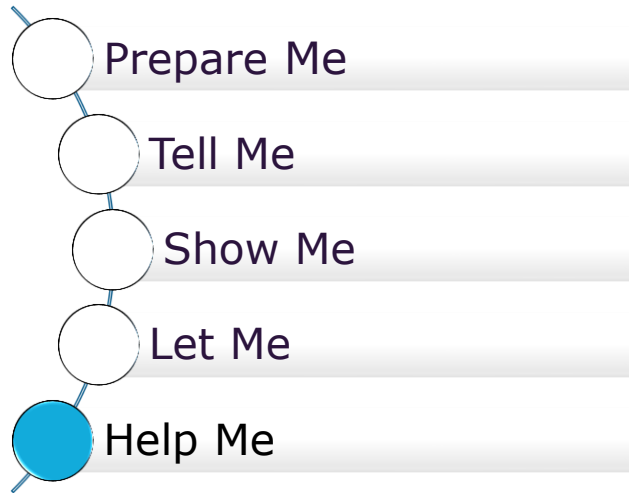
OB Reference Mater1

Default supply area

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## PP Master Data Overview



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here.

## References



Next slides shows some important tables for Master data.

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here.

## References – Table info



Material master is distributed in following tables

MARA – General material Data.

MARC – Purchasing data.

MARD – storage Location data.

MBEW – Valuation.

MAST – BOM Link.

MARM – Unit of Measurement.

MAKT – Basic Data.

MAPL – Routing Link.

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## References – Table info



Bill Of Material is distributed in following tables.

STKO – BOM Header data.

STPO – BOM Details (item)

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## References – Table info



Work Center is distributed in following tables

- CRCA – Capacity allocation.
- CRCO – Costing data.
- CRHD – Header data.
- CRHH – Hierarchy data.
- CRHS – Hierarchy structure.
- KAKO – Capacity header data.
- KAKT – Capacity description.
- KAPA – shift parameter of available capacity data.
- KAPE – capacity measuring data.
- KAZY – Interval of available Capacity data.

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## References – Table info



Routing is distributed in following tables

- PLKO – Group Header Data.
- PLFL - Sequence data.
- PLPO – Group operation.
- PLAS – Task list- Selection of Operation\activity.
- PLKZ – Task list header data.
- PLMZ – Allocation of BOM.
- PLFH – Task list - PRT

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here.

## References – T Codes



MM01/MM02/MM03 – Create/Change/Display of Material Master.

CS01/CS02/CS03 – Create/Change/Display of Bill of Materials.

CR01/CR02/CR03 – Create/Change/Display of Resource.

CA01/CA02/CA03 – Create/Change/Display of Recipe.

C223 – Maintenance of Production Versions.

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## Review Question



Which of the following are ways of deleting a BOM?

- Delete the entire BOM
- Delete a BOM item
- Set the deletion indicator
- Delete with a change number
- Archive the BOM

A material BOM can have many different usages for specific departments within a company

- True
- False

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