

PP 1: Display Stock/Requirements List

Exercise Use the SAP Easy Access Menu to display the Stock/Requirements List.

Time 5 min

Task Review the material status of your Deluxe Touring bike (finished good) in the Dallas plant using the Stock/Requirements list.

Name (Position) Lars Iseler (Production Order Worker)

The Stock/Requirements list contains up-to-date information on the current status of inventory on hand, requirements, and receipts. It is a dynamic list that allows you to view changes made to material status.

Stock/Requirements List


To review the material status, follow the SAP Easy Access menu path:

Menu path


Logistics ▶ Production ▶ Production Planning ▶ Demand Management ▶ Environment ▶ Stock/Requirements List

The following screen will appear.

The screenshot shows the 'Stock/Requirements List: Initial Screen' in SAP. At the top, there is a search bar with a dropdown arrow and a 'More' button. Below this, there are two tabs: 'Individual access' (which is selected) and 'Collective access'. The main area contains several input fields: '*Material:' (with a search icon to its left), 'Description:', 'MRP Area:', and 'Plant:'. At the bottom, there is a checkbox labeled 'With filter:'.


First of all, you need to find the material number(s) for your Deluxe Touring bikes. In order to do so, click in the Material field and press **F4** (or click on the search icon  next to the field). This will produce the Material Number search screen.

F4

Make sure that you are on the Material by Material Type tab. If not, you can use the  icon (in the top-right corner) to display a list of all search tabs available.

In the Material Type field, select **Finished Product (FERT)**. In order to display your Deluxe Touring bikes only, you need to define two more search criteria. First, in the Material Description field type **Deluxe Touring***. Second, in the Material field (which is the field for the unique material number) type ***###**. Remember to replace **###** with your three-digit number, e.g. *014 if your number is 014.

Finished Product
Deluxe*
*###

Compare your entries with the screen below before pressing Enter or clicking on  to start the search.

Material Number (1)

Sales Material by Description | **Material by Material Type** | Material by Supply Area | Pla...

Material type: FERT

Material description: Deluxe Touring*

Language Key: EN

Material: *000

Maximum No. of Hits: 500

Start Search | Multiple Selection | Close

The result of this search should give you a list of:

- all finished goods,
- which name (short description) starts with Deluxe Touring,
- which material numbers end with your number (###).

Material type: FERT

Material description	Language	Material
DELUXE TOURING BIKE (BLACK)	EN	DXTR1000
DELUXE TOURING BIKE (RED)	EN	DXTR3000
DELUXE TOURING BIKE (SILVER)	EN	DXTR2000

You should get a list of three different Deluxe Touring bikes – black, red and silver (please note that the material numbers in your screen will be different). Double-click on your black Touring bike which will copy its unique material number (**DXTR1###**) into the Material field.

DXTR1###

In addition to the material number, in the Plant field select Global Bike's manufacturing facility in Dallas (**DL00**). Then, press Enter or click on

DL00

Continue

.. A screen similar to the one shown below should be displayed.

The screenshot shows the SAP MRP element data for material **DXTR1000**, described as **Deluxe Touring Bike (black)**. The MRP Area is **DL00** (DC Dallas) and the Plant is **DL00**. The MRP type is **M1** and the Material type is **FERT**. The unit is **EA**. The table below shows the available quantity of 240 pieces as of 05/15/2019.

...	Date	MRP el...	MRP element data	Reschedulin...	...	Receipt/Reqmt	Available Qty
	05/15/2019	Stock					240
	05/22/2019	----->	End of Planning Time Fe..				

As you can see, Global Bike has currently 240 black Deluxe Touring bikes on stock. You might see a different amount based on the case studies you did before. Repeat the same procedure for the other two deluxe bikes (red and silver).

How many red Deluxe Touring Bikes are available in Dallas?

_____ pieces

How many silver Deluxe Touring Bikes are stored in the DL00 plant?

_____ pieces

Click on [Exit](#) to return to the SAP Easy Access Menu.



PP 2: Display Bill of Material

Exercise Use the SAP Easy Access Menu to display a bill of material.

Time 5 min

Task Review the components of your black Deluxe Touring bike and the components of the Touring Aluminum Wheel Assembly within the finished bike bill of material.

Name (Position) Jun Lee (Production Supervisor)

A bill of material (BOM) is a list of the components that are needed to create a given product. The list contains the description, the quantity and unit of measure. The BOM can contain items of different item categories such as stock items, non-stock items, document items, and text items.

Bill of Material (BOM)

To review a bill of material, follow the menu path:

Menu path

Logistics ▶ **Production** ▶ **Master Data** ▶ **Bills of Material** ▶ **Bill of Material** ▶ **Material BOM** ▶ **Display**

This will produce the following screen.

The system should have already defaulted in the material number (**DXTR1###**) and the plant (**DL00**) from the previous exercise. It also assumes that you would like to display the BOM valid today (note Valid From and Valid to dates). In addition, the system requests the BOM usage. Click in the BOM Usage field and use **F4** to display possible usage types. Select usage type **1** for plant DL00. Then, press Enter to display the BOM of your black Deluxe Touring Bike (please note that the material numbers in your screen will be different).

DXTR1###
DL00

F4
1

Display material BOM: General Item Overview

Material: Deluxe Touring Bike (black)
 Plant: Plant Dallas
 Alternative BOM:

Position Effectivity Initial Screen

Material Document General

<input type="checkbox"/>	Item	ICt	Component	Component description	Quantity	U...	As...	Sls	Valid From	Valid to
<input type="checkbox"/>	0010	L	TRWA1000	Touring Aluminum Wheel Assembly	2	EA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999
<input type="checkbox"/>	0020	L	TRFR1000	Touring Frame-Black	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999
<input type="checkbox"/>	0030	L	DGAM1000	Derailleur Gear Assembly	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999
<input type="checkbox"/>	0040	L	TRSK1000	Touring Seat Kit	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999
<input type="checkbox"/>	0050	L	TRHB1000	Touring Handle Bar	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999
<input type="checkbox"/>	0060	L	PEDL1000	Pedal Assembly	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999
<input type="checkbox"/>	0070	L	CHAN1000	Chain	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999
<input type="checkbox"/>	0080	L	BRKT1000	Brake Kit	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999
<input type="checkbox"/>	0090	L	WDOC1000	Warranty Document	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999
<input type="checkbox"/>	0100	L	PCKG1000	Packaging	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	01/01/2010	12/31/9999

The assembly indicator (column Asm; see circled area above) marks the item with components that have their own BOM. In this case, it is the Touring Aluminum Wheel Assembly.

Double-click on this checkbox (indicator for Wheel Assembly TRWA1###). This will produce the following screen.

TRWA1###

Display assembly

Material: Touring Aluminum Wheel Assembly
 Plant: Plant Dallas
 Usage: Production

Validity

Valid From:
 Valid to:

Additional Data

Required qty:

In the Display assembly screen, click on **Continue**. This will display the materials that make up the assembly of TRWA1###.

Repeat the procedure for your red and the silver Deluxe Touring bike to identify the differences in their bills of materials. You may open another (parallel) session to compare the BOMs in separate screens (to do so choose the Menu Path **More ▶ System ▶ New GUI Window**).

Click on **Exit** twice to return to the SAP Easy Access Menu.



PP 3: Display Multi-Level Bill of Materials

Exercise Use the SAP Easy Access Menu to display a multi-level BOM.

Time 5 min

Task Review the BOM for your black Deluxe Touring bike from a multi-level hierarchy level.

Name (Position) Jun Lee (Production Supervisor)

To display a multi-level BOM, follow the menu path:

Menu path

Logistics ▶ **Production** ▶ **Master Data** ▶ **Bills of Material** ▶ **Reporting** ▶ **BOM Explosion** ▶ **Material BOM** ▶ **Multilevel BOM**

In the following screen, enter (or find) Material **DXTR1###** (replace ### with your number), Plant **DL00**, and BOM Application **PP01** (Production-General). Then, click on **Execute** to display the BOM structure for your bike valid today. If the system requests a quantity, enter **1**.

DXTR1###
DL00
PP01

1

Explosion level	Item	Obj..	Component number	Object description	Ovfl	Comp. Qty (CUn)	Un	Ict	Ex.
.1	0010	TRWA1000	TRWA1000	Touring Aluminum Wheel ...			2 EA	L	
.2	0010	TRTR1000	TRTR1000	Touring Tire			2 EA	L	
.2	0020	TRTB1000	TRTB1000	Touring Tube			2 EA	L	
.2	0030	TRWH1000	TRWH1000	Touring Aluminum Wheel			2 EA	L	
.2	0040	HXNT1000	HXNT1000	Hex Nut 5 mm			2 EA	L	
.2	0050	LWSH1000	LWSH1000	Lock Washer 5 mm			4 EA	L	
.2	0060	BOLT1000	BOLT1000	Socket Head Bolt 5x20mm			2 EA	L	
.1	0020	TRFR1000	TRFR1000	Touring Frame-Black			1 EA	L	
.1	0030	DGAM1000	DGAM1000	Derailleur Gear Assembly			1 EA	L	
.1	0040	TRSK1000	TRSK1000	Touring Seat Kit			1 EA	L	
.1	0050	TRHB1000	TRHB1000	Touring Handle Bar			1 EA	L	
.1	0060	PEDL1000	PEDL1000	Pedal Assembly			1 EA	L	
.1	0070	CHAN1000	CHAN1000	Chain			1 EA	L	
.1	0080	BRKT1000	BRKT1000	Brake Kit			1 EA	L	

Click on **<** to go back to the initial screen. There, you click on **View**. On the following screen, in the Display field group select **Variable list** and click on **Execute**.

Variable list

Explode BOM: Multilevel BOM: View

Execute More

Exit

Define view

Alt priority

Scrap

Restrict view

Display

Variable list

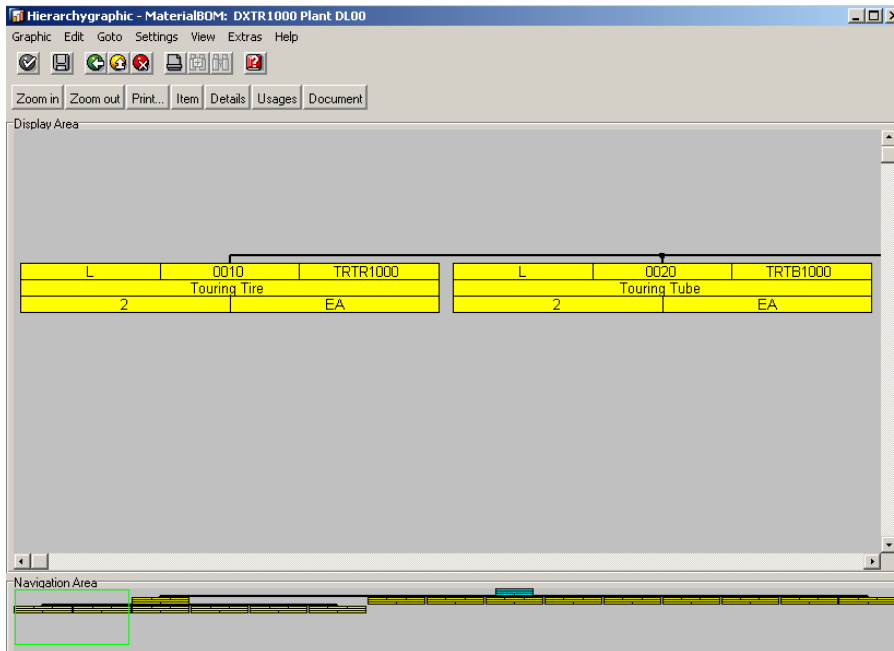
Display: SAPCSMLVMP01

Print: SAPCSMLVMP02


After reviewing the components of your Finished Bike, find and select the following item in the system menu:

More ► Goto ► Graphic

This should produce the following BOM hierarchy graphic.



You can use the Zoom in and Zoom out buttons to resize the graphic.

Click on  to exit the graphic screen. Then, click on [Exit](#) again to return to the SAP Easy Access Menu.



PP 4: Display Routing

Exercise Use the SAP Easy Access Menu to display a routing.

Time 10 min

Task Review the routing for your black Deluxe Touring bike.

Name (Position) Jun Lee (Production Supervisor)

A routing is a series of sequential operations carried out to produce an end product. Routings contain information on where work is to be performed, steps that need to be completed and time lines assigned for each operation.

Routing

To review a routing, follow the menu path:

Menu path

Logistics ▶ **Production** ▶ **Master Data** ▶ **Routings** ▶ **Routings** ▶ **Standard Routings** ▶ **Display**

Enter Material **DXTR1###** and Plant **DL00**. Then, click on **Continue** to display the following list of operations.

DXTR1###
DL00

Op...	SDP	Work cent...	Plant	Co...	Standard ...	Description	L...	P...	Cl...	O...	P...	C...	S...	Base Quant...	U...	Set...	U...	Activity...	Machine	U...
0010		ASSY1000	DL00	ASSY		Material staging								15	EA	0	MIN	LABOR	0	MIN
0020		ASSY1000	DL00	ASSY		Attach seat to frame								1	EA	0	MIN	LABOR	0	MIN
0030		ASSY1000	DL00	ASSY		Attach handle bar assembly								1	EA	0	MIN	LABOR	0	MIN
0040		ASSY1000	DL00	ASSY		Attach derailleur gear asm. to wheel								1	EA	0	MIN	LABOR	0	MIN
0050		ASSY1000	DL00	ASSY		Attach front and rear wheels to chain								1	EA	0	MIN	LABOR	0	MIN
0060		ASSY1000	DL00	ASSY		Attach brakes								1	EA	0	MIN	LABOR	0	MIN
0070		ASSY1000	DL00	ASSY		Attach peddles								1	EA	0	MIN	LABOR	0	MIN
0080		INSP1000	DL00	ASSY		Test bike								1	EA	2	MIN	LABOR	0	MIN
0090		PACK1000	DL00	ASSY		Disassemble								1	EA	0	MIN	LABOR	0	MIN
0100		PACK1000	DL00	ASSY		Pack bike								1	EA	0	MIN	LABOR	0	MIN
0110		PACK1000	DL00	ASSY		Move to storage								15	EA	0	MIN	LABOR	0	MIN

Select **Allocation** to display the list of components. None of them is assigned to any specific operation (note that column Activity is empty).

	P...	Le...	Path	Item...	Component	Quantity	Sort String	Un...	It...	B...	Activity
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0010	TRWA1000	2		EA	L		
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0020	TRFR1000	1		EA	L		
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0030	DGAM1000	1		EA	L		
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0040	TRSK1000	1		EA	L		
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0050	TRHB1000	1		EA	L		
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0060	PEDL1000	1		EA	L		
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0070	CHAN1000	1		EA	L		
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0080	BRKT1000	1		EA	L		
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0090	WDOC1000	1		EA	L		
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0100	PCKG1000	1		EA	L		

Select **Operation** to go back to the operation overview. Then, find the following system menu item:

More ▶ Extras ▶ Scheduling ▶ Schedule

This should produce the following screen.

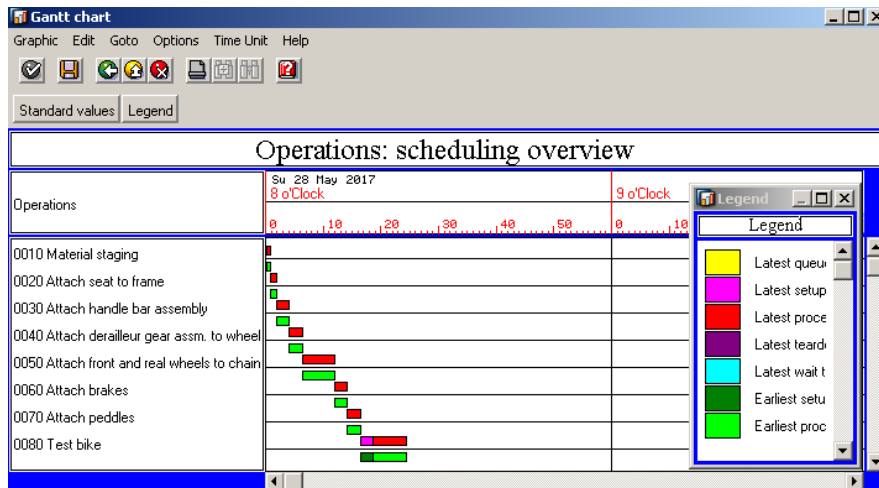
Enter Scheduling type **1** and Lot size **10**. Click on **Continue**. In the following screen, find or enter overview variant **000000000001** (Operation segments). Confirm your entry with **Continue**.


1
10
000000000001

In order to view the schedule in a Gantt chart, click on **Gantt chart**. Find the following system menu item:

Time unit ▶ Minute

Also, display the legend by clicking on **Legend**.



Click on  and on Yes to quit the Gantt chart. Then, click on [Exit](#) to return to the SAP Easy Access Menu.

Yes

PP 5: Display Work Center

Exercise Use the SAP Easy Access Menu to display a work center.

Time 15 min

Task Review a work center in GBI's plant in Dallas.

Name (Position) Jun Lee (Production Supervisor)

A work center is a location where operations are carried out for a production order. Capacities (setup, machine, and labor) are assigned to work centers so that they can be allocated and consumed within an order in a controlled and predictable manner. The work center capacity is created in and assigned to a single work center.

Work center

To review a work center and the capacity assigned to it, follow the menu path:

Menu path

Logistics ▶ **Production** ▶ **Master Data** ▶ **Work Centers** ▶ **Work Center** ▶ **Display**

Enter Plant **DL00**. In the Work center field, use the **F4** help and Enter to display all work centers in Dallas. In the search results, double-click on the DL Assembly work center to select it which should copy its number

DL00
F4

(**ASSY1000**). Click on **Defaults**.

ASSY1000

On the Basic Data tab, find out who is the person responsible.

On the Default Values tab, click in the Control key field (**ASSY**) and select **F4**. On the following screen, single-click on the ASSY. Then, select

ASSY
F4

Detailed information which indicates what data is required when ASSY is used.

Control key:

Detailed Information

Scheduling: <input checked="" type="checkbox"/>	Print Confirmation: <input type="checkbox"/>
Det. Cap. Reqmnts: <input type="checkbox"/>	Print Time Tickets: <input checked="" type="checkbox"/>
Cost: <input checked="" type="checkbox"/>	Print: <input type="checkbox"/>
Automatic GR: <input type="checkbox"/>	Sched. External Op.: <input type="checkbox"/>
Insp. Char. Required: <input type="checkbox"/>	External Processing: <input type="checkbox"/>
Rework: <input type="checkbox"/>	Confirmations: <input type="text" value="2"/>

Select .. Click on the Scheduling tab.

On the Scheduling tab, click in the Processing Duration formula field and select (Display formula). After acknowledging the formula, press to continue.

After selecting (Test formula), enter Operation Quantity **100 EA**, Base Quantity **1**, No. of Splits **2**, Setup **7 MIN**, and Labor **7 MIN**. Then, select . The following screen will appear.

100 EA
1
2
7 MIN
7 MIN

Test Formula

Duration with Operation Segments

Setup Durat.:	<input type="text" value="7.000"/>	<input type="button" value="MIN"/>
Process. Durat.:	<input type="text" value="350.000"/>	<input type="button" value="MIN"/>
Teardown Dur.:	<input type="text" value="0.000"/>	<input type="button" value="MIN"/>
Tot. Duratr:	<input type="text" value="357.000"/>	<input type="button" value="MIN"/>

Duration of Internal Processing

Duration Int. Process.:	<input type="text" value="0.000"/>	<input type="button" value="MIN"/>
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Click on to continue. Did the Processing formula work correctly?

Labor	
*	
Operation quantity	
/	
Base quantity	
/	
Operation splits	$((7 * 100) / 1) / 2 = 350$

Select **End Formula Test** to go back.

Click on **Exit** to return to the SAP Easy Access Menu.

