

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's a navigation bar with a back arrow, the SAP logo, and the title 'Stock/Requirements List: Initial Screen'. Below this is a search bar with a dropdown arrow and a 'More' link. To the right is an 'Exit' button. Underneath, there are two tabs: 'Individual access' (which is selected) and 'Collective access'. The main content area has several input fields: '*Material:' (with a red asterisk), 'Description:', 'MRP Area:', and 'Plant:'. At the bottom, there is a 'With filter:' checkbox.

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

Material Number (1)

← Sales material by description **Material by material type** Material by Supply Area Plant m... → ...

Material type:

Material description:

Language Key:

Material:

Maximum No. of Hits:

Start Search Multiple Selection Close

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***. 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 **Start Search** to start the search.

Material Number (1)

← Sales material by description **Material by material type** Material by Supply Area Plant m... → ...

Material type:

Material description:

Language Key:

Material:

Maximum No. of Hits:

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,

c) which material numbers end with your number (###).

Material Number (1) 4 Entries found

Sales material by description Material by material type Materi

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
DELUXE TOURING BIKE (WHITE)	EN	DXTR4000

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 GB's manufacturing facility in Dallas (**DL00**). Then, press Enter or click on

DL00

Continue

. You should be displayed a screen similar to the one shown below.

Stock/Requirements List

Material: DXTR1000

Description: Deluxe Touring Bike (black)

MRP Area: DL00 DC Dallas

Plant: DL00 MRP type: M1 Material type: FERT Unit:

Date	MRP element	MRP element data	Reschedulin...	Receipt/Reqmt	Available Qty
29.05.2018	Stock				240

As you can see, GB has currently 240 black Deluxe Touring bikes on stock. 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 screenshot shows the SAP 'Display material BOM: Initial Screen'. At the top, there is a navigation bar with the SAP logo and the title 'Display material BOM: Initial Screen'. Below the navigation bar, there is a search bar with a dropdown arrow. To the right of the search bar, there are links for 'Check entries', 'Item', 'Header', and 'More' with a dropdown arrow. The main area of the screen contains several input fields: '*Material:' with the value 'DXTR1000', 'Plant:' with the value 'DL00', '*BOM Usage:' with the value '1', and 'Alternative BOM:' with an empty field.

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

DXTR1###
DL00

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).

Item	ICt	Component	Component description	Quantity	Un	As...	Sls	Valid From	Valid to
0010	L	TRWA1000	Touring Aluminum Wheel Assembly	2	EA	<input checked="" type="checkbox"/>		01.01.2010	31.12.9999
0020	L	TRFR1000	Touring Frame-Black	1	EA	<input type="checkbox"/>		01.01.2010	31.12.9999
0030	L	DGAM1000	Derailleur Gear Assembly	1	EA	<input type="checkbox"/>		01.01.2010	31.12.9999
0040	L	TRSK1000	Touring Seat Kit	1	EA	<input type="checkbox"/>		01.01.2010	31.12.9999
0050	L	TRHB1000	Touring Handle Bar	1	EA	<input type="checkbox"/>		01.01.2010	31.12.9999

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###

Material: TRWA1000 Touring Aluminum Wheel Assembly

Plant: DL00 Plant Dallas

*Usage: 1 Production

Validity

Valid From: 27.05.2017


Valid to: 27.05.2017

Additional Data

Required qty: 2,000

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  and **New GUI Window** in the system tool bar).

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	Touring Aluminum Wheel ...		2	EA	L	
.2	0010		TRTR1000	Touring Tire		2	EA	L	
.2	0020		TRTB1000	Touring Tube		2	EA	L	
.2	0030		TRWH1000	Touring Aluminum Wheel		2	EA	L	
.2	0040		HXNT1000	Hex Nut 5 mm		2	EA	L	
.2	0050		LWSH1000	Lock Washer 5 mm		4	EA	L	
.2	0060		BOLT1000	Socket Head Bolt 5x20mm		2	EA	L	
.1	0020		TRFR1000	Touring Frame-Black		1	EA	L	
.1	0030		DGAM1000	Derailleur Gear Assembly		1	EA	L	
.1	0040		TRSK1000	Touring Seat Kit		1	EA	L	
.1	0050		TRHB1000	Touring Handle Bar		1	EA	L	
.1	0060		PEDL1000	Pedal Assembly		1	EA	L	
.1	0070		CHAN1000	Chain		1	EA	L	
.1	0080		BRKT1000	Brake Kit		1	EA	L	

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

Variable list

Explode BOM: Multilevel BOM: View

Execute

More ▾

Exit

Define view

☐ Alt priority

☐ Scrap

Restrict view

Display

☒ Variable list

Display:

SAPCSMLVMP01

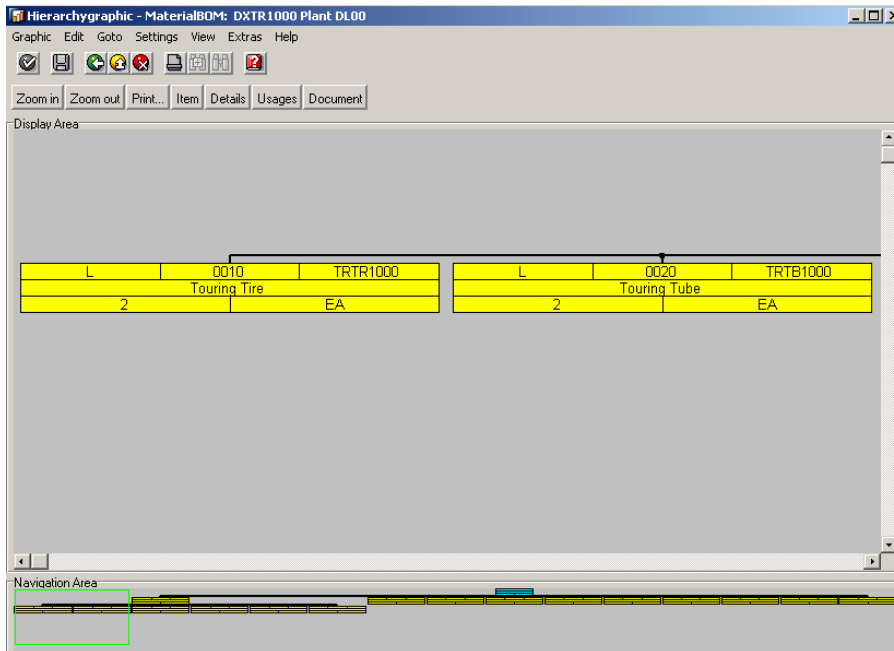
Print:

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  to display the following list of operations.

DXTR1###
DL00

<

SAP

Display Routing: Operation Overview

Previous header

Next header

Select all

Deselect all

Check

Long text

Work center

Allocation

Sequences

PRT

XSteps

More ▾

Material

DXTR1000

Deluxe Touring BikeGrp.Count1

Sequence: 0

Operation Overview

<input type="checkbox"/>	Op...	SCp	Work cent...	Plant	Co...	Standard ...	Description	L...	P...	Cl...	O...	P...	C...	S...	Base Quant...	U...	Set...	U...	Activity...	Machine	U...
<input type="checkbox"/>	0010		ASSY1000	DL00	ASSY		Material staging								15	EA	0	MIN	LABOR	0	MIN
<input type="checkbox"/>	0020		ASSY1000	DL00	ASSY		Attach seat to frame								1	EA	0	MIN	LABOR	0	MIN
<input type="checkbox"/>	0030		ASSY1000	DL00	ASSY		Attach handle bar assembly								1	EA	0	MIN	LABOR	0	MIN
<input type="checkbox"/>	0040		ASSY1000	DL00	ASSY		Attach derailleur gear asm. to wheel								1	EA	0	MIN	LABOR	0	MIN
<input type="checkbox"/>	0050		ASSY1000	DL00	ASSY		Attach front and rear wheels to chain								1	EA	0	MIN	LABOR	0	MIN
<input type="checkbox"/>	0060		ASSY1000	DL00	ASSY		Attach brakes								1	EA	0	MIN	LABOR	0	MIN
<input type="checkbox"/>	0070		ASSY1000	DL00	ASSY		Attach peddles								1	EA	0	MIN	LABOR	0	MIN
<input type="checkbox"/>	0080		INSP1000	DL00	ASSY		Test bike								1	EA	2	MIN	LABOR	0	MIN
<input type="checkbox"/>	0090		PACK1000	DL00	ASSY		Disassemble								1	EA	0	MIN	LABOR	0	MIN
<input type="checkbox"/>	0100		PACK1000	DL00	ASSY		Pack bike								1	EA	0	MIN	LABOR	0	MIN
<input type="checkbox"/>	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 Oper./Act. is empty).

Item Overview												
<input type="checkbox"/>	...	L...	Path	Ite...	Component	Quantity	Sort Stri...	U...	I...	...	Activity	Seq.
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0010	TRWA1000	2		EA	L		<input type="text"/>	
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0020	TRFR1000	1		EA	L		<input type="text"/>	
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0030	DGAM1000	1		EA	L		<input type="text"/>	
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0040	TRSK1000	1		EA	L		<input type="text"/>	
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0050	TRHB1000	1		EA	L		<input type="text"/>	
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0060	PEDL1000	1		EA	L		<input type="text"/>	
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0070	CHAN1000	1		EA	L		<input type="text"/>	
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0080	BRKT1000	1		EA	L		<input type="text"/>	
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0090	WDOC100...	1		EA	L		<input type="text"/>	
<input type="checkbox"/>	<input type="checkbox"/>	0	0	0100	PCKG1000	1		EA	L		<input type="text"/>	

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.

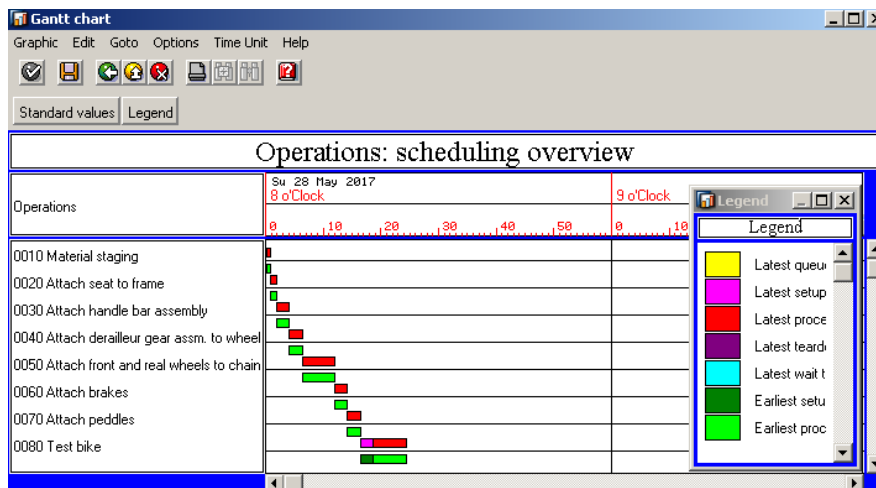
Enter Scheduling type **1** and Lot size **10**. Click on **Continue**. In the following screen, find or enter overview variant **000000000001** (Operation segments). Confirm your entry with **Continue**.


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

(**ASSY1000**). Click on .

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: **ASSY** Routing/Ref. op. set - internal proc.

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"/>


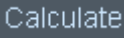
✓ Continue 🔍 Choose Detailed information ✕

Select . Click on the Scheduling tab.

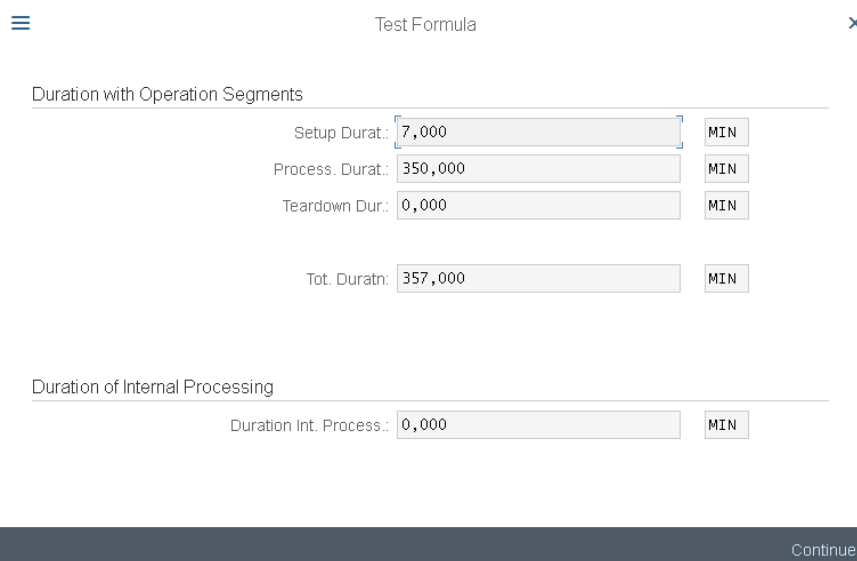
On the Scheduling tab, click in the Processing formula field and select


 Form.

(Display formula). After acknowledging the formula, press  to continue.

After selecting  Formula (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




Click on  to continue. Did the Processing formula work correctly?

Labor
▲
Operation quantity
/
Base quantity
/
Operation splits

$$(((7 * 100) / 1) / 2) = 350$$

Select  to go back.

Click on  to return to the SAP Easy Access Menu.

