**Chapter 06: Production**

**GBI Configuration Advanced**

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| **MOTIVATION**  In this exercise, you will do the following for Production Process:   1. Configure the Enterprise Structure 2. Configure the business rules and Parameters 3. Setup necessary Master Data 4. Test the processes |

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| **PRODUCT**  SAP S/4HANA 1709 |
|  |
| **REVISED**  06/08/2020 |
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| **FOCUS**  Production |
|  |
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|  |
| **VERSION**  1.3  **TESTED**   |  | | --- | | **PREREQUISITES**   1. You should be familiar with navigation in SAP S/4HANA. 2. You should be familiar with executing the Production process in SAP S/4HANA |   Date: 06/08/2020  System: MGL |

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| **ACKNOWLEDGEMENT**  These are advanced versions of the GBI configuration exercises initially developed by Simha R. Magal, Stefan Weidner, and Tom Wilder.  These exercises include complex configuration concepts discussed in the book, Business Process Configuration with SAP ERP (Epistemy Press, 2020). |





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1. Enterprise Structure

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* 1. Define Work Center Location

In this section, you will define a Work Center Location within the city of Dallas, TX.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide 🡪 Enterprise Structure 🡪 Definition 🡪 Logistics - General 🡪 Define Location

1. What is the Transaction Code to define a Work Center Location?  
          🖉
   * 1. In the *“Change View “Locations”: Overview”* screen, click New Entries .
     2. In the *“New Entries: Overview of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plnt | Key uniquely identifying a plant | *Your Plant Dallas* |
| Location | The space or local area of a plant | DALLAS TX |
| Name | Name | GBI MFG ## |

* + 1. Press Enter on the keyboard or click .
    2. In the *“Edit address: DL## DALLAS TX”* pop-up, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Country | The country key | *USA* |
| Region | In some countries, the region forms part of the address. | *Texas* |

* + 1. In the *“Street Address”* section, click S_B_EXPA2.
    2. Enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Jurisdict. code | Specifies the tax jurisdiction. | *Texas Jurisdiction Code* |

* + 1. Press Enter.
* You will receive a message that says, “One entry chosen”.
  + 1. In the *“New Entries: Overview of Added Entries”* screen, click Save .
* You will receive a message that says, “Data was saved”.

1. Rules and Parameters

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* 1. Carry Out Maintenance of Plant Parameters

In this section, you will display the number scheme by which production orders and other production-related transaction will be numbered. For example, your first Planned Production Order in Dallas will be Planned Order #1. You will also create an MRP controller (0##). The MRP controller is a planner (or group of planners) responsible for the day-to-day planning activities. You will also specify other analytical measures (float, for example) that guide the MRP algorithm.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Materials Management 🡪 Consumption-Based Planning🡪 Plant Parameters🡪 Carry Out Overall Maintenance of Plant Parameters

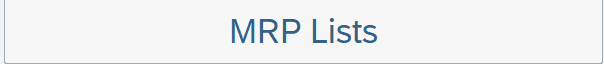
1. What is the T-Code to carry out overall maintenance of plant parameters?  
          🖉
   * 1. In the *“Plant Parameters for Material Requirements Planning”* screen, click Maintain .
     2. In the *“Maintain Plant Parameters”* pop-up, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key that uniquely identifies a plant. | *Your Plant Dallas* |

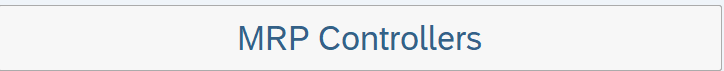
* + 1. Click Maintain .
    2. In the *“Plant Parameters for Material Requirements”* screen, click Maintain 
    3. In the *“Maintain Plant Parameters”* screen, click Number Ranges .
    4. In the *“Assign Number Ranges”* screen, click Planned Orders .
* You will receive a message that says “One entry chosen”.

1. What is the From Number for the planned order number range?  
          🖉
2. What is the To Number for the planned order number range?  
          🖉

* Use F4 to explore the different fields!
  + 1. Click Back .
    2. In the *“Assign Number Ranges”* screen, click Purchase Requisitions .
* You will receive a message that says “One entry chosen”.

1. What is the From Number for the purchase requisition number range?  
          🖉
2. What is the To Number for the purchase requisition number range?  
          🖉
   * 1. Click Back .
     2. In the *“Assign Number Ranges”* screen, click MRP Lists .

* You will receive a message that says “One entry chosen”.

1. What is the From Number for the MRP number range?  
          🖉
2. What is the To Number for the MRP number range?  
          🖉
   * 1. Click Back .
     2. In the *“Assign Number Ranges”* screen, click Back .
     3. In the *“Maintain Plant Parameters”* screen click MRP Controllers .

* You will receive a message that says, “No entries found that match selection criteria”.
  + 1. In the *“Change View “MRP Controllers”: Overview”* screen, click New Entries .
    2. In the *“New Entries: Details of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| MRP Controller | Specifies the number of MRP controller or group of MRP controllers responsible for material planning for the material. | 0## |
| Name of MRP Controller | Specifies the name of the MRP controller or group of MRP controllers responsible for material requirements planning. | ## DL Controller |

* + 1. Click Save .
* You will receive a message that says, “Data was saved”.
  + 1. Click Back .
* You will receive a message that says, “One entry chosen”.
  + 1. In the *“Change View “MRP Controllers”: Details”* screen, click Back .
    2. In the *“Change View “MRP Controllers”: Overview”* screen, click Back .
    3. In the *“Maintain Plant Parameters”* screen click Floats .
    4. In the *“Change View “Floats for Scheduling”: Overview”* screen, click New Entries 
    5. In the *“New Entries: Overview of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plnt | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Marg. | Key that the system uses to determine the floats required for scheduling an order. | 001 |
| Op.Per. | Number of workdays subtracted from the order start date to determine the creation date. | 1 |
| FI Bef. | Number of workdays allocated to this order as a float before production. | 1 |
| FI After | Number of workdays allocated to this order as a safety margin after production. | 1 |
| Rel. Per. | Number of working days in the release period of this order. | 1 |

* + 1. Click Save .
* You will receive a message that says, “Data was saved”.
  1. Define Production Scheduling Profile

In this section, you will create the Production Scheduling Profile used at your Dallas plant. GBI management wants to improve plant efficiency by automatically taking the following actions when a production order is created.

The order is:

* ***automatically released*** and ***scheduled*** without manual intervention.
* ***not scheduled*** unless all materials are available (e.g., partial orders are not allowed).

A production scheduling profile can be associated either with specific materials or to a production scheduler.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Master Data🡪 Define Production Scheduling Profile

1. What is the T-Code to define the production scheduling profile?  
          🖉
   * 1. In the *“Change View “Production Scheduling Profile”: Overview”* screen, click New Entries .
     2. In the *“New Entries: Details of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Prod. Sched. Profile | Specifies which transactions are carried out in parallel, can trigger an automatic goods receipt, or specify an overall profile for capacity leveling. | 10 |
| Description | Description of production scheduler profile. | ## Release & Schedule |
| Release | Specifies an order is to be released when it is created. | Selected |
| Schedule Order | Specifies an order is to be scheduled as it is released. | Selected |

* + 1. Click Save .
* You will receive a message that says, “Data was saved”.
  1. Define Production Scheduler

In this section, you will create a Production Scheduler and associate this scheduler with the production schedule profile created in the previous step. The Production Scheduler is responsible for the day-to-day scheduling activities for a set of manufactured materials across a plant or plants.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Master Data🡪 Define Production Supervisor

1. What is the T-Code to define the production scheduler?  
          🖉
   * 1. In the *“Change View “Production Scheduler”: Overview”* screen, click New Entries .
     2. In the *“New Entries: Overview of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Uniquely identifies a plant | *Your Plant Dallas* |
| ProdSched. | Scheduler responsible for a material in production. | 0## |
| Description | Description of Production Scheduler | ## DL Production Scheduler |
| ProdProfile | Specifies which transactions are carried out in parallel, can trigger automatic goods receipt, or specify an overall profile for capacity leveling. | 10 |

* + 1. Click Save .

You will receive a message that says, “Data was saved”.

* 1. View Order Types

In this section, you will view the different order types. An order type contains control information that you need for managing orders.

* Be sure to use your Change/Display button  so you do not change anything in this screen.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Master Data🡪 Order🡪 Define Order Types

1. What is the T-Code to define order types?  
          🖉
   * 1. In the *“Change View “Maintain Production Order Types” Overview”* screen, use the gray box to highlight the *“Standard Production Order”* line.
     2. Click Details .
     3. In the *“Change View “Maintain Production Order Types”: Details”* screen, click the search box  inside the Order Category input box.
2. What is the description for order category 60?  
          🖉
3. What is the description for order category 30?  
          🖉
4. What is the description for order category 10?  
          🖉
   * 1. Click the search box  inside the Settlement Profile input box.
5. What is the settlement profile text for PI01?  
         🖉
6. What is the settlement profile text for PP01?  
          🖉
   1. Define Order Dependent Parameters

In this section, you will specify parameters guiding the creation and release of standard production orders in your Dallas plant. You will specify production order parameters associated with the Dallas plant. This section implements GBI management’s tactical decisions regarding standard production orders: production orders require a routingboth planned (standard) costs and actual production costs are calculated for each production order.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Master Data🡪 Order🡪 Define Order-Type-Dependent Parameters

1. What is the T-Code to define order dependent parameters?  
          🖉
   * 1. In the *“Change View “Order Type-Dependent Parameters: Overview”: Overview”* screen, click New Entries .
     2. In the *“New Entries: Details of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key that uniquely identifies a plant. | *Your Plant Dallas* |
| Order Type | Key that differentiates orders according to their purpose. | *Standard Production Order* |
| BOM Application | Represents a process for automatic determination of alternatives in the different areas within a company. | *Production – General* |

1. Is the production version manual or automatic?  
          🖉
   * 1. Click the search box  inside the Application input box.
2. What is the description for the N application?  
          🖉
3. What is the description for the R application?  
          🖉
4. What is the description for the P application?  
          🖉
   * 1. Click the search box  inside the BOM Application input box.
5. What is the BOM Application PP01 description?  
          🖉
6. When does the reservation of materials happen with purchase requisitions?  
          🖉
   * 1. Click on the *“Cost Accounting”* tab , enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Planned Costs Costin | Key that specifies which costing variant is used to determine the planned costs. | *Production Order: Planned* |
| Actual Costs Costing | Key that specifies the costing variant that is used to determine the actual costs. | *Production Order: Actual* |

* + 1. Click Save .
* You will receive a message that says, “Data was saved”.
  1. View Checking Groups

In this section, you will view checking groups. The checking group for availability check specifies how the system checks availability and generates requirements for materials planning.

* Be sure to use your Change/Display button  so you do not change anything in this screen.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Operations🡪 Availability Check🡪 Define Checking Group

1. What is the T-Code to define Checking Groups?  
          🖉
   * 1. In the *“Display View “Availability Check Control”: Overview”* screen, browse each of the 5 availability check requirements.
2. What is the description for A?  
          🖉
3. What is the description for B?  
          🖉
4. What is the description for Availability check 01?  
          🖉
5. What is the description for Availability check 02?  
          🖉
   1. View Checking Rules

In this section, you will be viewing checking rules and their different types

* Be sure to use your Change/Display button  so you do not change anything in this screen.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Operations🡪 Availability Check🡪 Define Checking Rule

1. What is the T-Code to define checking rules?  
          🖉
   * 1. In the *“Display View “Checking Rule”: Overview”* screen, browse the different types of checking rules.
2. What is the description for checking rule “A”?  
          🖉
3. What is the description for checking rule “B”?  
          🖉
4. What is the description for checking rule “BQ”?  
          🖉
   1. View Scope of Check

In this section, you will view the Scope of Check. The checking group and checking rule together define the scope of check. In this section, you will be viewing and comparing 2 scope of checks.

* Be sure to use your Change/Display button  so you do not change anything in this screen.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Operations🡪 Availability Check🡪 Define Scope of Check

1. What is the T-Code to define the scope of check?  
          🖉
   * 1. In the *“Display View “Availability Check Control”: Overview”* screen, use the gray box to highlight the following line:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Avail | Checking group for availability check | 01 |
| Description | Description of checking group | Daily requirements |
| CRI | Checking rule for the availability check | PP |
| Checking Rule | Description of checking rule | PP checking rule |

* + 1. Click Details .

1. Is the Check without RLT box checked?  
          🖉
   * 1. Click Back .
     2. In the *“Display View “Availability Check Control”: Overview”* screen, deselect your highlighted row.
     3. Use the gray box to highlight the following line:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Avail | Checking group for availability check | 02 |
| Description | Description of checking group | Individ.requriements |
| CRI | Checking rule for the availability check | PP |
| Checking Rule | Description of checking rule | PP checking rule |

* + 1. Click Details .

1. Is the Check without RLT box checked?  
          🖉
2. What does Check without RLT mean?  
          🖉
   1. Define Checking Control

In this section, you will specify parameters guiding the creation and release of production orders in your Dallas plant. You will copy ***checking control parameters*** from Company Code US00 to your Company Code US##.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Operations🡪 Availability Check🡪 Define Checking Control

1. What is the T-Code to define a checking control?  
          🖉
   * 1. In the *“Change View “Order Control”: Overview”* screen, highlight the *“DL00 PP01 1”* row & the *“DL00 PP01 2”* row.
     2. Click Copy As .

* You will receive a message that says, “Specify target entries”.
  + 1. In the *“Change View “Order control”: Details of Selected Set”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |

* + 1. Press Enter on keyboard or click .
* You will receive a message that says, “Specify target entries”.
  + 1. Enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |

* + 1. Press Enter on keyboard or click .
* You will receive a message that says, “Number of entries copied: 2”.
  + 1. In the *“New Entries: Overview of Added Entries”* screen, click Save .
* You will receive a message that says, “Data was saved”.
  1. Define Scheduling Parameters

In this section, you will specify parameters guiding the creation and release of standard production orders in your Dallas plant. You will specify scheduling parameters associated with the Dallas Plant and your Production Scheduler. This step implements GBI management’s strategic decisions regarding production order scheduling:

* Orders cannot be ***scheduled to begin in in the past*** (and hope that production can ‘catch up’).
* Order ***lead time will not be automatically reduced*** (in the case the order is ‘running late’).
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Operations🡪 Scheduling🡪 Define Scheduling Parameters for Production Orders

1. What is the T-code to define scheduling parameter for production orders?  
          🖉
   * 1. *“Change View “Specify scheduling parameters”: Overview”* screen, click New Entries .
     2. In the *“New Entries: Details of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Order type | Identifies the usage of the orders. | *Standard Production order* |
| Prodn Superviso | Scheduler responsible for a material. | *Your DL Production Scheduler* |
| Scheduling Type | Specifies the scheduling type. | Backwards |
| Automatic Scheduling | Specifies that orders or networks are automatically scheduled when saved. | Selected |

* + 1. Click Save .
* You will receive a message that says, “Data was saved”.
  1. Define Confirmation Parameters

In this section, you will specify parameters guiding the creation and release of standard production orders in your Dallas plant. You will specify confirmation parameters associated with the Dallas Plant. This step implements GBI management’s tactical philosophy regarding the confirmation of standard production orders. At final confirmation, all production order components (raw materials and semi-finished goods) are ready for issue and thus open reservations are cleared.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Operations🡪 Confirmation🡪 Define Confirmation Parameters

1. What is the T-Code to define confirmation parameters?  
          🖉
   * 1. In the *“Change View “Parameters for Order Confirmation”: Overview”* screen, click New Entries .
     2. In the *“New Entries: Details of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key that uniquely identifies a plant. | *Your Plant Dallas* |
| Order Type | Key that differentiates orders according to their purpose. | *Standard Production order* |

* + 1. Click on the “Individual Entry General” tab  .
    2. Enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Confirmation Type | Specifies what sort of confirmation is to be automatically proposed. | Final Confirmation |
| Clear Open Reservations | Specifies that with a final confirmation the indicator “Final issue” is also set for components that are not back flushed. | Selected |

* + 1. Click Save .
* You will receive a message that says, “Data was saved”.
  1. View Control Keys

In this section, you will be viewing control keys for routings and work centers.

* Be sure to use your Change/Display button  so you do not change anything in this screen.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Basic Data🡪 Work Center🡪 Routing Data🡪 Define Control Key

1. What is the T-Code to define the control key?  
          🖉
   * 1. In the *“Display View “Control Keys for Operations”: Overview”* screen, use the gray box to highlight *“ASSY”* row.
     2. Click Details .
     3. In the *“Display View “Control Keys for operations”: Details”* screen, click the *“External Processing”* search box .
2. What is the description for the “+” external processing?  
          🖉
   * 1. In the *“External processing (1)”* pop-up, click close .
     2. Click the *“Conformations”* search box .
3. What does confirmation 3 represent?  
          🖉
   * 1. Exit the current transaction back to the *“SAP Easy Access Menu”*, and follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Master Data 🡪 Routings 🡪 Routings 🡪 Standard Routings 🡪 Display

* + 1. In the *“Display Routing: Initial Screen”* screen, enter the Following Information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Key uniquely identifying the material | *The Original Deluxe Touring Bike (Black)* |
| Plant | Key uniquely identifying a plant | *The Original Dallas Plant* |

* + 1. Press enter on keyboard or click continue 

1. How many operations are there for the Original Touring Bike (Black)?  
          🖉
2. Which work center does testing the bike occur in?  
          🖉
3. How many labor minutes does it take to test the bike?  
          🖉

* You will need to scroll to the right
  + 1. Exit the current transaction back to the *“SAP Easy Access Menu”* and follow the navigation path below on your new session.

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Master Data 🡪 Work Centers 🡪 Work Center 🡪 Display

* + 1. In the *“Display Work Center: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant | *The Original Dallas Plant* |
| Work Center | Key identifying the work center | ASSY1000 |

* + 1. Press Enter on the keyboard or click .
    2. In the *“Display Work Center: Basic Data”* screen, Click on the Default Values Tab

1. What is the Control Key?  
          🖉
   1. View Costing Types

In this section, you will be viewing costing types and look at the 2 options in the system.

* Be sure to use your Change/Display button  so you do not change anything in this screen.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Integration🡪 Order Costing🡪 Define Costing Types

1. What is the define costing types T-Code?  
          🖉
   * 1. In the *“Display View “Costing types”: Overview”* screen, answer the following questions:
2. What is the name of costing type 06?  
          🖉
3. What is the name of costing type 07?  
          🖉
   1. View Valuation Variants

In this section, you will view valuation variants and look at the many different strategy sequences.

* Be sure to use your Change/Display button  so you do not change anything in this screen.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Integration🡪 Order Costing🡪 Define Valuation Variants

1. What is the T-Code to define valuation variants?  
          🖉
2. What is the name for valuation variant 006?  
          🖉
3. What is the name for valuation variant 007?  
          🖉
   * 1. In the *“Display View “Valuation Variants”: Overview”* screen, highlight valuation variant *“006”*.
     2. Click Details .
4. What is the first priority for the strategy sequence?  
          🖉
5. What is the second priority for the strategy sequence?  
          🖉
   * 1. Click the *“ActivityTypes/Processes”* tab .
6. What is the first priority for the strategy sequence?  
          🖉
   1. View Costing Variants

Costing Variants contain control parameters of all aspects of costing. The costing variant control how costing is executed:

* Whether the costing results are planned or actual costs
* Which prices are used to valuate materials, internal activities, and external activities
* How overhead is calculated

For a costing variant to exist you must have configured the costing type and the valuation variant.

* Be sure to use your Change/Display button  so you do not change anything in this screen.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Integration🡪 Order Costing🡪 Define Costing Variants

1. What is the T-code to define costing variants?  
          🖉
   * 1. In the *“Display View “Costing Variants”: Overview”* screen, highlight the *“PPP1”* costing variant.
     2. Click the details  icon.

* Notice that the costing type and valuation variant are both under the Control tab. You can click on both buttons and it will bring you to the associated transactions, that we navigate to in II.16.

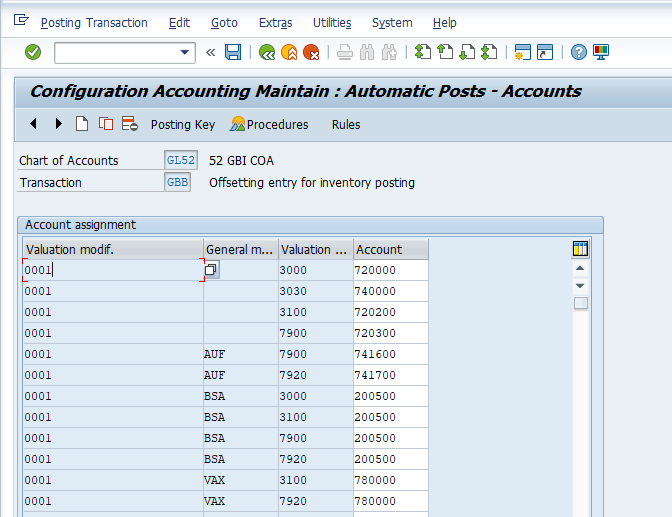
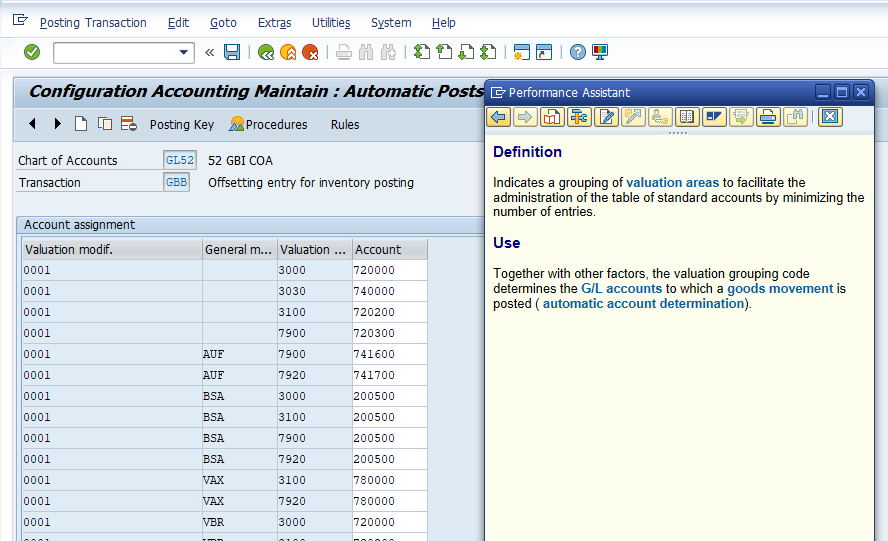
1. What is the costing type key for Production Order: Planned?  
          🖉
   1. Configure Automatic Postings

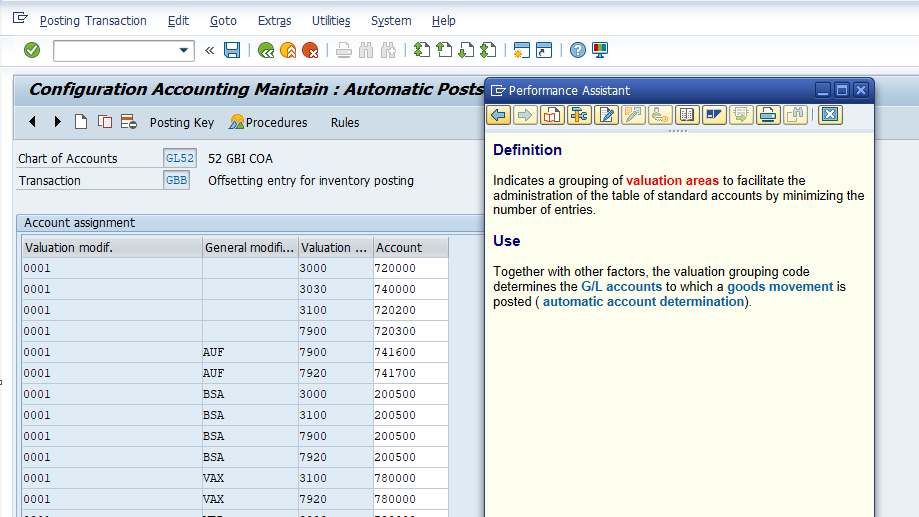
In this section, you will configure SAP to automatically post General Ledger transactions associated with the Production business process. You will specify the General Ledger accounts associated with the ***Issue Materials*** process step. For example, when Raw Materials (Valuation Class = 3000) are issued to a production order (Transaction Key = VBR) financial transaction will post to ***Inventory – Raw Materials*** (specified in a previous step) and ***Raw Material Consumption*** (the offsetting account, specified in this step). Notice that the General Ledger account for ‘inventory from heaven’ is also specified here.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Materials Management🡪 Valuation and Account Assignment🡪 Account Determination🡪 Account Determination Without Wizard🡪 Configure Automatic Postings

1. What is the T-code to configure automatic posting?  
          🖉
   * 1. You may receive a *“Valuation Area”* Pop Up, Use the cancel button at the bottom right to close this pop up.
     2. In the *“Automatic Posting”* screen, click Account Assignment .
     3. In the *“Configuration Accounting Maintain: Automatic Posting – Procedures”* screen, double-click on GBB.
     4. In the *“Enter Chart of Accounts”* pop-up, enter Your Chart of Accounts.
     5. Press Enter on the keyboard or click Continue .
     6. Click the first row in the *“Valuation Modif”* column (Will be bracketed in blue). Select ‘General Modification’, ‘Valuation Modification’ , ‘Valuation class’ and click on ‘Accounts’. 
     7. Press the F1 key and read the Definition and Use in the *“Performance Assistance”* pop up.
     8. Click on the blue areas/accounts in the pop up assistant (they will turn red when you hover over it) and read the descriptions. Repeat this for *General modification and Valuation Class*.



* + 1. Close the *“Performance Assistance”* pop up when finished.
    2. In the *“Configuration Accounting Maintain: Automatic Posts – Accounts”* screen, enter the following information:

|  |  |  |  |
| --- | --- | --- | --- |
| **Val. modif.** | **Gen. modif.** | **Valuation class** | **Account** |
| 0001 |  | 3000 | *Your Raw Material Consumption Expense* |
| 0001 |  | 3030 | *Your Supplies Expense* |
| 0001 |  | 3100 | *Your Trading Good Consumption Expense* |
| 0001 |  | 7900 | *Your Semi-Finished Consumption Expense* |
| 0001 | AUF | 7900 | *Your Manufacturing Output Settlement* |
| 0001 | AUF | 7920 | *Your Manufacturing Output Settlement Variance* |
| 0001 | VBR | 3000 | *Your Raw Material Consumption Expense* |
| 0001 | VBR | 3100 | *Your Trading Good Consumption Expense* |
| 0001 | VBR | 7900 | *Your Semi-Finished Consumption Expense* |
| 0001 | BSA | 3000 | *Your Inventory-Suspense (Heaven)* |
| 0001 | BSA | 3100 | *Your Inventory-Suspense (Heaven)* |
| 0001 | BSA | 7920 | *Your Inventory-Suspense (Heaven)* |
| 0001 | BSA | 7900 | *Your Inventory-Suspense (Heaven)* |

* + 1. Click Save .
* You will receive a message that says, “Changes have been made”.
  1. Define Valuation of Goods Received

In this section, you will configure SAP to automatically post General Ledger transactions associated with the production business process. You will specify the **valuation area** (Dallas plant) and the **valuation variant** which specifies what material price is used for the credit posting. For each valuation area, you must define an order delivery valuation variant.

* If the materials are valued at **moving average price (MAP)**, the value for the credit posting is made using a valuation variant.
* If the materials are valued at **standard price**, the credit posting always takes place at a standard price.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Shop Floor Control🡪 Integration🡪 Define Valuation of Goods Received

1. What is the T-Code to define valuation of goods received?  
          🖉
   * 1. In the *“Change View “Valuation variants for order costing”: Overview”* screen, click New Entries .
     2. In the *“New Entries: Overview of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Val. Area | Organizational level at which the material is valuated. | *Your Plant Dallas* |
| Val. Var. | Determines the price of goods receipts for materials. | *Production Order: Actual* |

* + 1. Click Save .
* You will receive a message that says, “Data was saved”.
  1. View Standard Value Keys

In this section, you will view the Standard Value Keys.

* Be sure to use your Change/Display button  so you do not change anything in this screen.
  + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide 🡪 Production 🡪 Capacity Requirements Planning 🡪 Master Data 🡪 Work Center Data 🡪 Standard Value 🡪 Define Standard Value Keys

1. What is the Transaction Code to view the Standard Value Keys?  
          🖉
   * 1. In the *“Display View “Standard Value Key Formula”: Overview”* screen, answer the following questions:
2. What is the text for the Standard Value Key “SAP 4”?  
          🖉
3. What is the text for the Standard Value Key “SAP 2”?  
          🖉
4. What is the text for the Standard Value Key “SAP 1”?  
          🖉
   * 1. Highlight the *“SAP1”* Standard Value Key line.
     2. Click Details .
     3. In the *“Display View “Standard Value Key Formula”: Details”* screen, answer the following questions:
5. What is the first Parameter?  
          🖉
6. What is the second Parameter?  
          🖉
7. What is the third Parameter?  
          🖉
   * 1. Click the search box  inside the first parameter’s input box.
     2. In the *“Parameter ID”* pop-up, answer the following questions:
8. What is the Keyword for Parameter SAP\_07?  
          🖉
9. What is the Keyword for Parameter SAP\_09?  
          🖉
10. What is the Keyword for Parameter SAP\_11?  
           🖉

1. Master Data

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* 1. Create Raw Materials

In this section, you will create materials for testing the Production process. You will create Raw Material by copying from the material master in Company Code US00. You will begin by copying Socket Head Bolt 5x20mm (BOLT1000) from Company Code US00. You will renumber the original bolts and change the description and associate your Raw Materials with your Purchasing Group and MRP Controller you created earlier.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu🡪 Logistics🡪 Materials Management🡪 Material Master🡪 Material🡪 Create (Special)🡪 Raw Material

1. What is the T-code to create a raw material?  
          🖉
   * 1. In the *“Create Raw Material (Initial Screen)”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Key uniquely identifying the material. | BOLT10## |
| Industry sector | Industry to which the material is assigned. | Mechanical engineering |
| Copy from…Material | Material you want the system to copy. | BOLT1000 |

* + 1. Press Enter on the keyboard or click Continue .
    2. In the *“Select View(s)”* pop-up, click the deselect all button 
    3. In the *“Select View(s)”* pop-up,

**Highlight the** “Basic Data 1” **row.**

**Highlight the** “Purchasing” **row.**

**Highlight the** “MRP1” **row.**

**Highlight the** “MRP2” **row.**

**Highlight the** “General Plant Data / Storage 1” **row.**

**Highlight the** “Accounting 1” **row.**

**Highlight the** “Costing 1” **row.**

* + 1. Click Default Setting .
    2. Press Enter.
    3. In the *“Organizational Levels”* pop-up, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Stor. Location | The storage location at which the material is stored. | *Your Raw Materials* |
| Copy from Plant | Plant of the reference material. | DL00 |
| Copy from Stor. Location | Storage location of the reference material. | RM00 |

* + 1. Click Default Setting .
    2. Press Enter on the keyboard or click Continue .
* You will receive a message that says, “The material already exists and will be extended”.
  + 1. In the *“Create Raw Material BOLT10##”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material Description (Short Text) | Material Description | ## Socket Head Bolt 5x20mm |
| Purchasing Group | A buyer or a group of buyers. | *Your Purchasing Group* |

* + 1. Press Enter on the keyboard or click .
    2. Enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| MRP Controller | Specifies the number of the MRP Controller or group of MRP controllers responsible for material planning. | *Your DL Controller* |

* + 1. Press Enter on the keyboard or click .
    2. Press Enter.
    3. In the *“Last data screen reached”* pop-up, click Yes .
* You will receive a message that says “Material BOLT10## created”.
  + 1. You have just created your Socket Head Bolt in the steps above. Appendix G contains data about all the Raw Materials in GBI. Use the data in appendix G to create the following Raw Materials: BOLT10##, BRKT10##, CHAN10##, DGAM10##, HXNT10##, LWSH10##, PCKG10##, PEDL10##, TRFR30##, TRHB10##, TRSK10##, TRTB10##, TRTR10##, TRWH10##, WDOC10##. Create each of the materials with the same views you used above.
  1. Create Semi-Finished Goods

In this section, you will create materials for testing the Production process. You will create a Semi-Finished Good by copying from the material master in Company Code US00. You will copy the Touring Aluminum Wheel Assembly (TRWA1000) from Company Code US00, renumber the original assembly, and change the description. You will associate your Semi-Finished Good with your MRP Controller (0##) and Production Scheduler (0##) created earlier in this Phase.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Materials Management 🡪 Material Master 🡪 Material 🡪 Create (Special) 🡪 Semifinished Product

1. What is the T-code to create a semifinished product?  
          🖉
   * 1. In the *“Create Semifinished Product (Initial Screen)”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Key identifying the material. | TRWA10## |
| Industry Sector | Industry to which the material is assigned. | Mechanical Engineering |
| Copy from…Material | Material you want to copy from. | TRWA1000 |

* + 1. Press Enter on the keyboard or click Continue 
    2. In the *“Select View(s)”* pop-up, click the deselect all button 
    3. In the “Select View(s)” pop-up,

**Highlight the** “Basic Data 1” **row.**

**Highlight the** “MRP1” **row.**

**Highlight the** “MRP2” **row.**

**Highlight the** “Work Scheduling” **row.**

**Highlight the** “General Plant Data / Storage 1” **row.**

**Highlight the** “Accounting 1” **row.**

**Highlight the** “Costing 1” **row.**

* + 1. Click Default Setting .
    2. Press Enter.
    3. In the *“Organizational Levels”* pop-up, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Stor. Location | Location at which the material is stored. | *Your Semi-Finished Goods* |
| Copy from Plant | Plant of the reference material. | DL00 |
| Copy from Stor. Location | Storage location of the reference material. | SF00 |

* + 1. Click Default Setting .
    2. Press Enter on the keyboard or click .
* You will receive a message that says, “The material already exists and will be extended”.
  + 1. In the *“Create Semifinished Product TRWA10##”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material Description (Short Text) | Material Description | ## Touring Aluminum Wheel Assembly |
| MRP Controller | Controller responsible for material planning. | *Your DL Controller* |

* + 1. Press Enter on the keyboard or click .
    2. Enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| In-house production | Time in workdays needed to produce the material in-house. | 1 |

* + 1. Press Enter.
    2. Enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Prodn Supervisor | Responsible for materials in production. | *Your DL Production Scheduler* |

* + 1. Press Enter until you reach the last tab.
    2. Press Enter.
    3. In the “*Last data screen reached”* pop-up, click Yes .
* You will receive a message that says “Material TRWA10## created”.
  1. Create Finished Goods

In this section, you will create materials for testing the Production process. You will create a Finished Good by copying from the material master in Company Code US00. You will copy the Deluxe Touring Bike (red) (DXTR3000) from Company Code US00, renumber the original assembly, and change the description. You will associate your new Finished Good with your MRP Controller (0##) and Production Scheduler (0##) created earlier in this Phase.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Materials Management 🡪 Material Master 🡪 Material 🡪 Create (Special) 🡪 Finished Product

1. What is the T-code to create a finished product?  
          🖉
   * 1. In the *“Create Finished Product (Initial Screen)”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Key identifying the material. | DXTR30## |
| Industry sector | Key that specifies the branch of industry to which the material is assigned | *Mechanical Engineering* |
| Copy from…Material | Material you want to copy from. | DXTR3000 |

* + 1. Press Enter on the keyboard or click continue .
    2. In the *“Select View(s)”* pop-up, click the deselect all button 
    3. In the *“Select View(s)”* pop-up,

**Highlight the** “Basic Data 1” **row.**

**Highlight the** “MRP1” **row.**

**Highlight the** “MRP2” **row.**

**Highlight the** “Work Scheduling” **row.**

**Highlight the** “General Plant Data / Storage 1” **row.**

**Highlight the** “Accounting 1” **row.**

**Highlight the** “Costing 1” **row.**

* + 1. Click Default Setting .
    2. Press Enter.
    3. In the *“Organizational Levels”* pop-up, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Stor. Location | Location at which the material is stored. | *Your Finished Goods* |
| Copy from Plant | Plant of the reference material. | DL00 |
| Copy from Stor. Location | Storage location of the reference material. | FG00 |

* + 1. Click Default Setting .
    2. Press Enter on the keyboard or click .
* You will receive a message that says, “The material already exists and will be extended”.
  + 1. In the *“Create Finished Product DXTR30##”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material Description (Short Text) | Material Description | ## Deluxe Touring Bike (red) |
| MRP Controller | MRP Controller responsible for material planning for the material. | *Your DL Controller* |

* + 1. Press Enter on the keyboard or click .
    2. Enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| In-house production | The time in workdays needed to produce the material in-house. | 1 |

* + 1. Enter on the keyboard or click .
    2. Enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Prodn Supervisor | Responsible for materials in production. | *Your DL Production Scheduler* |

* + 1. Press Enter until you reach the last tab.
    2. Press Enter.
    3. In the *“Last data screen reached”* pop-up, click Yes .
* You will receive a message that says “Material DXTR30## created”.
  1. Create Bill of Materials

In this section, you will create Bills of Material (BOM) for use at Dallas by copying from Company Code US00. You will copy the BOM from the Dallas Plant (DL00) in Company Code US00; and change each component from the original material (example, BOLT1000) to **your** material (example, BOLT10##).

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Master Data 🡪 Bills of Material 🡪 Bill of Material 🡪 Material BOM 🡪 Create

1. What is the T-code to create a bill of materials?  
          🖉
   * 1. In the *“Create material BOM: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Key uniquely identifying the material. | *Your Touring Aluminum Wheel Assembly* |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| BOM Usage | Defines the area where a BOM can be used. | *Production* |

* + 1. Click Copy From .
    2. In the *“Copy From…”* pop-up, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Key uniquely identifying the material. | *Original Touring Aluminum Wheel Assembly* |
| Plant | Key uniquely identifying a plant. | *Original Plant Dallas* |

* + 1. Press Enter on the keyboard or click continue .
    2. In the *“Create material BOM: Copy From”* screen, click Select All .
    3. Click Copy .
* You will receive an ERROR that says “Material TRTR1000 not maintained in plant DL##”.
  + 1. In the *“Create material BOM: Item: General data”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Component | Material number of the components that you enter. | *Your Touring Tire* |

* + 1. Press Enter.
* You will receive an ERROR that says “Material TRTB1000 not maintained in plant DL##”.
  + 1. Repeat these steps to change each material to Your material to add the rest of your raw materials to your touring wheel assembly bill of materials.
    2. In the *“Create material BOM: General Item Overview”* screen, click Save .
* You will receive a message that says “Creating BOM for material TRWA10##”.
  + 1. In the *“Create material BOM: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Alphanumeric key uniquely identifying the material. | *Your Deluxe Touring Bike (red)* |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |

* + 1. Click Copy From .
    2. In the *“Copy From…”* pop-up, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Alphanumeric key uniquely identifying the material. | *Original Deluxe Touring Bike (red)* |
| Plant | Key uniquely identifying a plant. | *Original Plant Dallas* |

* + 1. Press Enter.

* + 1. In the *“Create material BOM: Copy From”* screen, click Select All .
    2. Click Copy .
* You will receive an error that says “Material TRWA1000 not maintained in plant DL##”.
  + 1. In the *“Create material BOM: Item: General data”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Component | Number of the components that you enter | *Your Touring Aluminum Wheel Assembly* |

* + 1. Press Enter.
* You will receive an error that says “Material TRWA10## not maintained in plant DL##”.
  + 1. Repeat these steps to change each material to Your material to add all your raw materials to your deluxe touring bike (red) bill of materials.
    2. In the *“Create material BOM: General Item Overview”* screen, click Save .
* You will receive a message that says “Creating BOM for material DXTR30##”.
  1. Create Activity Types

In this section, you will define the labor needed to manufacture products. You will create activity types which describe the various forms of activity that can be performed at a cost center. For simplicity, GBI uses only one activity type: LABOR. You will implement GBI management’s tactical decisions that LABOR is: measured in Hour (H), evaluated for each cost center, and distributed to the Labor secondary cost element for management accounting.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu🡪 Accounting🡪 Controlling🡪 Cost Center Accounting🡪 Master Data🡪 Activity Type🡪 Individual Processing🡪 Create

1. What is the T-code to create activity type?  
          🖉
   * 1. In the *“Create Activity Type: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Activity Type | Key uniquely identifying an activity type. | LABOR |
| Valid From | Date indicating as of when an entry is valid. | *First Day of Current Year* |

* + 1. Press Enter on the keyboard or click .
    2. In the *“Create Activity Type: Basic Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Name | General description of the object. | ## Labor Hours |
| Activity Unit | Time or quantity unit used to post the consumed activity quantities. | *Hour* |
| CCtr categories | Determines for which cost center types an activity type is allowed for planning and as a sender in activity allocation. | *All Cost Center Cate* |
| ATyp category | The method of activity planning and allocation. | *Manual entry, manual allocation* |
| Allocation cost elem | A secondary cost element under which the activity type business process is allocated. | *Your Labor* |
| Price indicator | Indicator showing how the system calculates the price of a business process or activity type. | *Plan price, automatically based on activity* |

* Make sure to use Hour(H) and not Hours(HR) for the Activity Unit.
  + 1. Click Save .
* You will receive a message that says, “Activity type has been created”.

1. What does activity unit HR stand for and how is it different than Hour?  
          🖉
   1. Change Activity Output/Process

In this section, you will define the labor needed to manufacture products. You will specify how the LABOR activity is distributed between – and among – Cost Centers.In Chapter 3, when you created your standard hierarchy you created an Operations Cost Center Group composed of several Cost Centers. For each of these Cost Centers, you will define the price of LABOR which will be used for product cost calculations.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu🡪 Accounting🡪 Controlling🡪 Cost Center Accounting🡪 Planning🡪 Activity Output/Prices🡪 Change

1. What is the T-code to change activity output/process?  
          🖉
   * 1. In the *“Change Activity Type/Price Planning: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Version | A collection of year-dependent indicators for planning data. | *Plan/Act – Version* |
| From Period | A planning period is the smallest closed unit of a fiscal year in which plan data can be entered and stored in the system. | 1 |
| To Period | A planning period is the smallest closed unit of a fiscal year in which plan data can be entered and stored in the system. | 12 |
| Fiscal year | Period when a company creates inventory. | *Current Year* |
| Cost Center | Organizational unit for grouping together cost centers. | *Your Operations* |
| Or Group |
| Activity Type | A description of the activity produced by a cost center. | LABOR |

* + 1. Click on More button  Select “GoTo” and then choose “Overview Screen”.
    2. In the *“Change Activity Type/Price Planning: Overview Screen”* screen, enter the following information:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | **Plan Activity** | **Distribution key** | **Distribution key** | **Variable price** |
| LABOR | 100000 | *Distribution as before* | *Distribution as before* | 10 |

* + 1. Click on More button  Select “GoTo” and then choose “Next Layout”
    2. Repeat this for the rest of the cost centers within the group.
    3. Click Post .
* You will receive a message that says, “Changed data has been posted”.
  + 1. In the *“Change Activity Type/Price Planning: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Fiscal year | Period for which a company creates its inventory and balance sheet | *Year After Current* |

* + 1. Click on More button  Select “GoTo” and then choose “Overview Screen.
    2. In the *“Change Activity Type/Price Planning: Overview Screen”* screen, enter the following information:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | **Plan Activity** | **Distribution key** | **Distribution key** | **Variable price** |
| LABOR | 100000 | *Distribution as before* | *Distribution as before* | 10 |

* + 1. Click Next Combination C:\Users\Mike\Dropbox\Folder 05\SAP Icons\S_B_PRVI.gif.
    2. Repeat this for the rest of the cost centers within the group.
    3. Click Post .
* You will receive a message that says, “Changed data has been posted”.
  1. Create Capacity

To plan production, GBI must understand the manufacturing capacity at each Plant and Work Center.

* GBI has two types of capacity: person hours and machine hours. GBI’s Dallas plant has three people and three machines, both available during day shift only.

In this section, you will create a capacity called shift for a person and for a machine.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu🡪 Logistics 🡪 Production🡪 Master Data🡪 Work Centers🡪 Capacity🡪 Create

1. What is the T-code to create a capacity?  
          🖉
   * 1. In the *“Create Capacity: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Capacity | Description by which the capacity is created. | SHIFT |
| Capacity category | Key which describes capacity in more detail. | *Person* |

* + 1. Enter on the keyboard or click .
    2. In the *“Create Capacity: Header”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Capacity short text | Describes the capacity in more detail. | ## Standard Day Shift |
| Capacity Responsible | Key referring to the capacity planner group. | *Planner group A* |
| Capacity Base Unit | Unit in which capacity is maintained. | *Hour* |
| Start Time | Start of the shift. | 08:00:00 |
| End Time | End of the shift. | 17:00:00 |
| Length of breaks | Total break time per shift. | 01:00:00 |
| Capacity utilization | The relationship between a machine’s actual capacity and its theoretical capacity. | 100 |
| No. Ind. Capacities | Number of elements which make up a group. | 3 |
| Relevant to finite scheduling | Specifies that the system should take the available capacity and the load of this capacity into account during finite scheduling. | Selected |

* + 1. Click Save .
* You will receive a message that says, “Capacity SHIFT plant DL## category 002 created”.
  + 1. In the *“Create Capacity: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Capacity category | The capacity category enables you to determine whether it is machine or labor capacity. | *Machine* |

* + 1. Press Enter on the keyboard or click .
    2. In the *“Create Capacity: Header”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Capacity short text | Describes the capacity in more detail. | ## Standard Day Shift |
| Capacity responsible | Key referring to the capacity planner group. | *Planner group A* |
| Capacity Base Unit | Unit in which capacity is maintained. | *Hour* |
| Start Time | Start of the shift. | 08:00:00 |
| Finish Time | End of the shift. | 17:00:00 |
| Length of breaks | Total break time per shift. | 01:00:00 |
| Capacity utilization | The relationship between a machine’s actual capacity and its theoretical capacity. | 100 |
| No. of indiv. cap. | Number of elements which make up a group. | 3 |
| Relevant to finite scheduling | Specifies that the system should take the available capacity and the load of this capacity into account during finite scheduling. | Selected |

* + 1. Click Save .
* You will receive a message that says, “Capacity SHIFT plant DL## category 001 created”.
  1. Determine Person Responsible

You willcreate a person (## Steve Barton) responsible for maintaining Work Center master data. Note that this person is not responsible for Work Center planning, but rather for maintaining Work Center parameters.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Customizing Implementation Guide🡪 Production🡪 Basic Data🡪 Work Center🡪 General Data🡪 Determine Person Responsible

1. What is the T-code to create a person responsible?  
          🖉
   * 1. In the *“Change View “Person Responsible for Work Center”: Overview”* screen, click New Entries .
     2. In the *“New Entries: Overview of Added Entries”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plnt | Key uniquely identifying a plant | *Your Plant Dallas* |
| Pers. Respons. | Person responsible for the work center | 0## |
| Person responsible work center | Text describing person responsible | ## Steve Barton |

* + 1. Click Save .
* You will receive a message that says, “Data was saved”.
  1. Create Work Centers

In this section, you will create Work Centers at your Dallas plant and associate each Work Center with a Work Center Location, Cost Center, and Person Responsible.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu🡪 Logistics🡪 Production🡪 Master Data🡪 Work Centers🡪 Work Center🡪 Create

1. What is the T-code to create a work center?  
          🖉
   * 1. In the *“Create Work Center: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Work center | Key identifying the work center. | ASSY10## |
| Work center category | Key which distinguishes the work centers. | *Labor* |

* + 1. Click on Next screen.
    2. In the *“Create Work Center: Basic Data”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Description | Description | ## DL Assembly |
| Person responsible | Person who is responsible for the work center | *Your Person Responsible* |
| Usage | Controls which type of task list used. | *All task list types* |
| Standard value key | Dimension to one of up to six values. | *Normal production* |

* + 1. Press Enter on the keyboard or click .

1. What does Usage 004 represent?  
          🖉
   * 1. Enter the following information in the standard value maintenance section of the screen:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Key Word | Key work describing the underlying parameter | Setup |
| Rule for Mant. | Determines how the system reacts when you enter or do not enter a standard value in an operation of a routing | Should be Entered |
|  | | |
| Key Word | Key work describing the underlying parameter | Machine |
| Rule for Mant. | Determines how the system reacts when you enter or do not enter a standard value in an operation of a routing | No Checking |
|  | | |
| Key Word | Key work describing the underlying parameter | Labor |
| Rule for Mant. | Determines how the system reacts when you enter or do not enter a standard value in an operation of a routing | Should be Entered |

* + 1. Click on the *“Default Values”* tab.
    2. In the *“Create Work Center: Default Values”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Control key | Determines which business transactions should be executed for the object that belongs to the order. | *Routing/Ref. op. set – internal proc.* |

* + 1. Enter the following information in the units of measurement of standard value section of the screen:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Parameter | Describes the underlying parameter | Setup |
| Standard Value Unit(St…) | Unit of standard value | Minute (MIN) |
|  | | |
| Parameter | Describes the underlying parameter | Machine |
| Standard Value Unit(St…) | Unit of standard value | Nothing goes here |
|  | | |
| Parameter | Describes the underlying parameter | Labor |
| Standard Value Unit(St…) | Unit of standard value | Minute (MIN) |

* + 1. Click on the *“Scheduling”* tab.
    2. In the *“Create Work Center: Scheduling”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Capacity category | Enables the determination of whether it is machine or labor. | *Person* |
| Capacity | Capacity name | SHIFT |
| Duration of Setup | Formula used in scheduling to calculate the setup time. | *Prod.: Setup time* |
| Processing Duration | Formula used in scheduling to determine the processing time | *Prod.: Labor time* |

* + 1. Click on the *“Costing”* tab.
    2. In the *“Create Work Center: Cost Center Assignment”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Cost Center | Key uniquely identifying a cost center. | *Your Production Costs* |

* + 1. Enter the following information at the bottom of the screen:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Alt activity descr. | Text that describes an activity | Setup |
| Activity Type | Key uniquely identifying an activity type | LABOR |
| Formula key | Key which refers to the formula used | *Prod.: Setup time* |
|  | | |
| Alt activity descr. | Text that describes an activity | Machine |
| Activity Type | Key uniquely identifying an activity type | Nothing goes here |
| Formula key | Key which refers to the formula used | Nothing goes here |
|  | | |
| Alt activity descr. | Text that describes an activity | Labor |
| Activity Type | Key uniquely identifying an activity type | LABOR |
| Formula key | Key which refers to the formula used | *Prod.: Labor time* |

* + 1. Click Save .
* You will receive a message that says, “Work center ASSY10## in plant DL## was created”.
  + 1. You have just created your Assembly work center in the steps above. Appendix F contains data about all the Work Centers in GBI. Use the data in appendix F to create the following Work Centers: INSP10##, MANT10##, PACK10##, and SERV10##. Create each of the work centers using the steps above.
  1. Create Product Routings

This is the third of three steps in which you will define the labor needed to manufacture products. You will create Product Routings for use at Dallas by copying from Company Code US00. Note that:

* the Routing is developed for an individual plant, so GBI can use different Routings for the same manufactured good as local plant needs dictate.
* each operation includes setup time, machine time, and labor time. This data allows GBI to do capacity planning and product costing.

You will copy the Routing from the Dallas Plant (DL00) in Company Code US00; and change each Work Center from the original Work Center (example, ASSY1000) to **your** Work Center (example, ASSY10##).

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Master Data 🡪 Routings 🡪 Routings 🡪 Standard Routings 🡪 Create

1. What is the T-code to create a product routing?  
          🖉
   * 1. In the *“Create Routing: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Key uniquely identifying the material. | *Your Touring Aluminum Wheel Assembly* |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Group | Key identifying a group. | CLEAR OUT (Make sure nothing is in this field) |

* + 1. Click Copy from .
    2. In the *“Select Type”* pop-up, with *“Routing”* selected, Click Continue .
    3. In the *“Create Using Copy Function: Select Object to be Copied”* pop-up, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Key uniquely identifying the material. | *Original Touring Aluminum Wheel Assembly* |
| Plant | Key uniquely identifying a plant. | *Original Plant Dallas* |

* + 1. Press Enter on the keyboard or click Continue .
    2. In the *“Create Routing: Header Data Check”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Overall Status | Indicates the processing status of a task list. | *Released (general)* |

* + 1. Press Enter on the keyboard or click .
* You will receive an error that says “Work center ASSY1000 does not exist in plant DL##”.
  + 1. In the *“Create Routing: Operation – Check”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Work center | Key identifying the work center. | ASSY10## |

* + 1. Press Enter on the keyboard or click .
    2. In the *“Information”* pop-up, click Continue  or Press Enter .
    3. In the next *“Information”* pop-up, Press Enter .
* You will receive a message that says, “Enter standard value Setup”.
  + 1. In the *“Create Routing: Operation – Check”* screen, Press Enter .
* You will receive a message that says, “Enter standard value Setup”.
  + 1. Press Enter .
    2. Repeat Steps III.10.9 – III.10.14 to add the rest of your work centers to your touring wheel assembly product routing.
    3. In the *“Create Routing: Operation Overview”* screen, click Save .
* You will receive a message that says, “Routing was saved with group and material TRWA10##”.
  + 1. In the *“Create Routing: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Alphanumeric key uniquely identifying the material. | *Your Deluxe Touring Bike (red)* |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Group | Key identifying a group. | CLEAR OUT (Make sure nothing is in this field) |

* + 1. Click Copy from .
    2. In the *“Select Type”* pop-up, with *“Routing”* selected, Press Enter or click Continue .
    3. In the *“Create Using Copy Function: Select Object to be Copied”* pop-up, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Alphanumeric key uniquely identifying the material. | *Original Deluxe Touring Bike (red)* |
| Plant | Key uniquely identifying a plant. | *Original Plant Dallas* |

* + 1. Press Enter on keyboard or Click Continue .
    2. In the *“Create Routing: Header Data Check”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Overall Status | You use the status key to indicate the processing status of a task list | *Released (general)* |

* + 1. Press Enter on your keyboard or Click 
* You will receive an error that says, “Work center ASSY10## does not exist in plant DL##”.
  + 1. In the *“Create Routing: Operation – Check”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Work center | Key identifying the work center. | ASSY10## |

* + 1. Press Enter on your keyboard or Click 
    2. In the *“Information”* pop-up, Click Continue .
    3. In the *“Information”* pop-up, Click Continue .
* You will receive a message that says, “Enter standard value Setup”.
  + 1. In the *“Create Routing: Operation – Check”* screen, Press Enter.
* You will receive a message that says, “Enter standard value Setup”.
  + 1. Press Enter.
    2. Repeat these steps to add the rest of your work centers to your deluxe touring bike (red) product routing.
    3. In the *“Create Routing: Operation Overview”* screen, click Save .
* You will receive a message that says, “Routing was saved with group and material DXTR30##”.
  1. Create Production Versions

In this section, you will create Production Versions for your Touring Wheel Assembly (TRWA10##) and your Deluxe Touring Bike (red) (DXTR30##). Manufacturing BOM determination is only possible with the creation of Production Version master data in S/4HANA. You will need to reference your material’s routing to find the group and group counter values.

* + 1. In the “SAP Easy Access” screen, follow the navigation path below:

Navigation

SAP Easy Access Menu 🡪 Logistics 🡪 Production 🡪 Master Data 🡪 Routings 🡪 Routings 🡪 Standard Routings 🡪 Display

* + 1. In the *“Display Routing: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| Attribute | Description | Data Value |
| Material | Key identifying your material | *Your Touring Wheel Assembly* |
| Plant | Key uniquely identifying a plant. | *Your Dallas Plant* |
| Group | Groups together several task lists. | *CLEARED OUT* |

* + 1. Press Enter on keyboard on click .
    2. In the *“Display Routing: Operation Overview”* screen, select Header .

1. What is your Touring Wheel Assembly group?   
          🖉
2. What is your Touring Wheel Assembly group counter?   
          🖉
   * 1. In the *“Display Routing: Header Details”* screen, click back  two times.
     2. In the *“Display Routing: Initial Screen”* enter the following information:

|  |  |  |
| --- | --- | --- |
| Attribute | Description | Data Value |
| Material | Key identifying your material | *Your Deluxe Touring Bike (red)* |
| Plant | Key uniquely identifying a plant. | *Your Dallas Plant* |
| Group | Groups together several task lists | *CLEARED OUT* |

* + 1. Press Enter on keyboard or Click 
    2. In the *“Display Routing: Operation Overview”* screen, select Header .

1. What is your Deluxe Touring Bike (red) group?  
          🖉
2. What is your Deluxe Touring Bike (red) group counter?   
          🖉
   * 1. In the “SAP Easy Access” screen, follow the navigation path below:

Navigation

SAP Easy Access Menu 🡪 Logistics 🡪 Production 🡪 Master Data 🡪 Production Versions

1. What is the transaction code to create a production version?   
          🖉
   * 1. In the *“Production Version: Mass Processing”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| Attribute | Description | Data Value |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Material | Key identifying your material | *Your Touring Wheel Assembly* |
| MRP Controller | MRP Controller responsible for material planning for the material. | *Your DL Controller* |

* + 1. Press Enter on keyboard or Click Continue .
    2. In the *“Production Version: Mass Processing”* screen, in the *“Production Versions”* section of the screen enter the following information:

|  |  |  |
| --- | --- | --- |
| Attribute | Description | Data Value |
| Material | Key identifying your material | *Your Touring Wheel Assembly* |
| Production Version | Key identifying your production version | 01 |
| Production Version Short Text | Text describing your Production Version | Touring Wheel Assembly PV |
| BOM Usage | Key defining the area (such as engineering/design or production) where a BOM can be used | 1 |
| Group | Key for task list group found in material routing | *Your Touring Wheel Assembly routing group* |
| Group Counter | Helps uniquely identify the task list for the production version of a material | *Your Touring Wheel Assembly Group Counter* |
| Type | Key which classifies task lists according to their functionality | Routing |

* + 1. Press Enter on keyboard or Click Continue 
    2. You will receive a warning message *“valid from date is set to current date and valid to date will be set to maximum”*. Press Enter on keyboard or Click Continue .
    3. Press Enter through the warning message *“Check default alternative BOM”*
    4. Click Save .
* You will not receive a confirmation message; however, you will now be able to perform the production process for your Touring Wheel Assembly.
  + 1. In the *“Production Version: Mass Processing”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| Attribute | Description | Data Value |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |
| Material | Key identifying your material | *Your Deluxe Touring Bike (red)* |
| MRP Controller | MRP Controller responsible for material planning for the material. | *Your DL Controller* |

* + 1. Press Enter on keyboard or Click Continue .
    2. In the *“Production Version: Mass Processing”* screen in the *“Production Version”* section of the screen enter the following information:

|  |  |  |
| --- | --- | --- |
| Attribute | Description | Data Value |
| Material | Key identifying your material | *Your Deluxe Touring Bike (red)* |
| Production Version | Key identifying your production version | 01 |
| Production Version Short Text | Text describing your Production Version | Deluxe Touring Bike (red) PV |
| BOM Usage | Key defining the area (such as engineering/design or production) where a BOM can be used | 1 |
| Group | Key for task list group found in material routing | *Your Deluxe Touring Bike (red) routing group* |
| Group Counter | Helps uniquely identify the task list for the production version of a material | *Your Deluxe Touring Bike Red group counter* |
| Type | Key which classifies task lists according to their functionality | Routing |

* + 1. Press Enter on keyboard or Click Continue 
    2. You will receive a warning message *“valid from date is set to current date and valid to date will be set to maximum”*. Press Enter on keyboard or Click Continue 
    3. Press Enter through the warning message *“Check default alternative BOM”*.
    4. Click Save .
* You will not receive a confirmation message; however, you will now be able to perform the production process for your Deluxe Touring Bike (red).

1. Process Execution

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* 1. Create Initial Inventory Balance

Testing of the production process is organized into three parts:

* Create raw material inventory balance (IV.4.1)
* Produce semi-finished good (Touring Aluminum Wheel Assembly) (IV.4.2 – 6)
* Product finished good (Deluxe Touring Bike (red) (IV.4.7 – 11)

In this section, you create the raw material inventory balance required to produce 10 bikes. Normally, the material planning process would create purchase requisitions for the necessary raw materials. You would then execute the procurement process and receive these materials into inventory. However, for the purpose of this exercise, we will take a shortcut and create “inventory from heaven” using a special movement type (561). Recall that earlier in this Phase, you create the General Ledger accounts required for this special movement type.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Materials Management 🡪 Inventory Management 🡪 Goods Movement 🡪 Goods Movement

1. What is the T-code to create “inventory from heaven”?  
          🖉
   * 1. In the *“Goods Receipt Other”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Trans/Event | Drop-down menu | Goods Receipt |
| Reference Document | Indicates the document you want to reference when you enter the transaction | Other |
| Movement Type | Specifies a key for the type of goods movement | 561 |

* + 1. Press Enter on keyboard or Click .
    2. In the *“Tip”* pop-up, Click Enter .
    3. In the *“Goods Receipt Other”* screen, enter the following information:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Mat. Short Text** | **Qty in UnE** | **EUn** | **SLoc** | **Plnt** |
| BOLT10## | 20 | EA | *Raw Materials* | *Your Plant Dallas* |
| BRKT10## | 10 | EA | *Raw Materials* | *Your Plant Dallas* |
| CHAN10## | 10 | EA | *Raw Materials* | *Your Plant Dallas* |
| DGAM10## | 10 | EA | *Raw Materials* | *Your Plant Dallas* |
| HXNT10## | 20 | EA | *Raw Materials* | *Your Plant Dallas* |
| LWSH10## | 40 | EA | *Raw Materials* | *Your Plant Dallas* |
| PCKG10## | 10 | EA | *Raw Materials* | *Your Plant Dallas* |
| PEDL10## | 10 | EA | *Raw Materials* | *Your Plant Dallas* |
| TRFR30## | 10 | EA | *Raw Materials* | *Your Plant Dallas* |
| TRHB10## | 10 | EA | *Raw Materials* | *Your Plant Dallas* |
| TRSK10## | 10 | EA | *Raw Materials* | *Your Plant Dallas* |
| TRTB10## | 20 | EA | *Raw Materials* | *Your Plant Dallas* |
| TRTR10## | 20 | EA | *Raw Materials* | *Your Plant Dallas* |
| TRWH10## | 20 | EA | *Raw Materials* | *Your Plant Dallas* |
| WDOC10## | 10 | EA | *Raw Materials* | *Your Plant Dallas* |

* + 1. Press Enter on keyboard or Click .
    2. Click Post .
* You will receive a message that says, “Material document 49………… posted”.
  1. Create Planned Order for Semi-Finished Goods

In this section, you will manually create a planned production order for your wheel assembly. Normally, the material planning process (MRP) would evaluate the demand for bikes, and create planned production orders for the correct quantity of wheel assemblies. However, for the purpose of this exercise, you have manually determined that you need 10 bikes (DXTR30##). To manufacture the bikes, you need 20 wheel assemblies (TRWA10##). The planned production order for 20 Wheel Assemblies is sent to the Dallas production schedulers specifying when the wheel assemblies must be available in inventory.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Materials Management 🡪 Material Requirements Planning (MRP) 🡪 MRP 🡪 Planned Order 🡪 Create

1. What is the T-code to create a planned order?  
     🖉
   * 1. In the *“Create Planned Order: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Planned order profile | Profile that determines the order type, the procurement type, the special procurement type, and the account assignment type for processing the planned order. | *Stock Order* (LA) |

1. What planned order profile does KB represent?  
          🖉
   * 1. Press Enter on keyboard or Click Continue .
     2. In the *“Create Planned Order: Stock order”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Number of the material for the order. | *Your Touring Aluminum Wheel Assembly* |
| MRP Area | Key uniquely identifying the plant | *Your Plant Dallas* |
| Order quantity | Quantity to be produced or ordered according to the planned order. | 20 |
| End | Date that you should expect either the completion or the delivery of the order. | *One Week from Today* |
| Production plant | Plant in which the order quantity of the internally produced material is to be produced according to the planned order. | *Your Plant Dallas* |
| Storage Location | Location at which the material is stored. | *Your Semi-Finished Goods* |
| Production Version | Determines the BOM and Routing | 01 |

* + 1. Click Save .
* You will receive a message that says, “Planned order will be created”.

1. What is the resulting Planned Order number?  
          🖉
   1. Convert Planned Order for Semi-Finished Goods

In this section, you will manually convert your planned production order (PldOrd) into a production order (PrdOrd). This authorizes that production may begin. Note that after conversion, the production scheduler can change components, quantities, or dates.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 MRP 🡪 Evaluations 🡪 Stock/Requirements List

1. What is the T-code to view the stock/requirements list?  
          🖉
   * 1. In the *“Stock/Requirements List: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Number of the material for the order. | *Your Aluminum Touring Wheel Assembly* |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |

* + 1. Press Enter on keyboard or Click Continue .
    2. In the *“Stock/Requirements List as of XX-XX”* screen, double-click on *“PldOrd”* in the table.
    3. In the *“Additional Data for MRP Element”* pop-up, click -> Prod.ord .
* You will receive a message that says, “Release carried out”.
  + 1. In the *“Production order Create: Header”* screen, click Save .
* You will receive a message that says, “Order number saved”.

1. What is the resulting document number?  
          🖉
   1. Issue Materials to Production Order 1

In this section, you will manually release (issue) the raw materials needed to produce the 20 wheel assemblies. This goods issue transaction posts the raw material costs to the production order, and decreases inventory from the Raw Materials storage location.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Shop Floor Control 🡪 Goods Movements 🡪 Goods Issue / Goods Receipt

1. What is the T-code to issue materials to production?  
          🖉
   * 1. In the *“Goods Receipt Other”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Trans/Event | Drop-down menu | Goods Issue |
| Reference Document | Indicates the document you want to reference when you enter the transaction | Order |
| Order Number | Number assigned to order document | *Production Order Document Number* |
| Movement Type | Specifies a key for the type of goods movement | 261 |

* + 1. Press Enter on keyboard or Click .
    2. In the *“Goods Issue Order 1………”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Mat. Short Text** | **OK** | **SLoc** |
| ## Touring Tire | Selected | *Your Raw Materials* |
| ## Touring Tube | Selected | *Your Raw Materials* |
| ## Touring Aluminum Wheel | Selected | *Your Raw Materials* |
| ## Hex Nut 5 mm | Selected | *Your Raw Materials* |
| ## Lock Washer 5 mm | Selected | *Your Raw Materials* |
| ## Socket Head Bolt 5x20mm | Selected | *Your Raw Materials* |

* + 1. Click Post .

1. What is the resulting document number?  
          🖉
   1. Confirm Production for Semi-Finished Goods

In the previous section, you released raw material to the production order. In this section, you will confirm the completion of the wheel assemblies. Your Dallas plant completed all 20 wheel assemblies, so you verify a yield of 20.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Shop Floor Control 🡪 Confirmation 🡪 Enter 🡪 For Order

1. What is the T-code to confirm production?  
          🖉
   * 1. In the *“Enter Production Order Confirmation: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Order | Number which identifies an order number. | *Production Order Number* |

* + 1. Press Enter on keyboard or Click Continue .
    2. In the *“Confirmation of Production Order Enter: Actual Data”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Yield Quantity | Yield that you want to confirm for the operation. | 20 |

* + 1. Click Save .
    2. In the Error in actual cost calculation pop-up, select
* You will receive a message that says, “Confirmation of order saved”.
  1. Receive Semi-Finished Into Inventory

In the previous section, you confirmed the yield of the production process. In this section, you will now receive the 20 wheel assemblies into inventory. This goods receipt transaction increases inventory in the Semi-Finished Goods storage location.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Shop Floor Control 🡪 Goods Movements 🡪 MIGO Goods Issue/Goods Receipt

1. What is the T-code to create a goods receipt?  
          🖉
   * 1. In the *“Goods Receipt for Order: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Trans/Event | Drop-down menu | Goods Receipt |
| Reference Document | Indicates the document you want to reference when you enter the transaction | Order |
| Document Number | Document number assigned to the document you would like to reference | *Production Order Number* |
| Movement Type | Specifies a key for the type of goods movement | 101 |

* + 1. Press Enter on keyboard or Click .
    2. In the *“Goods Receipt for Order: New Items 0001”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| OK | Indicates that the item is to be regarded as closed. | Selected |
| SLoc | Location at which the material is stored | *Semi-finished Goods* |

* + 1. Click Post .
* You will receive a message that says, “Document posted”.

1. What is the resulting document number?  
          🖉
   1. Create Planned Order for Finished Goods

In this section, you will manually create a planned production order for your touring bikes. Normally, the material planning process (MRP) would evaluate the demand for bikes, and create planned production orders for the correct quantity of red touring bikes. However, for the purpose of this exercise, you have manually determined that you need 10 bikes (DXTR30##).

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 MRP 🡪 Planned Order 🡪 Create

* + 1. In the *“Create Planned Order: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Plnned order profile | Determines different types for processing planned orders | *Stock order* |

* + 1. Press Enter on keyboard or Click Continue .
    2. In the *“Create Planned Order: Stock order”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Number of the material. | *Your Deluxe Touring Bike (red)* |
| MRP Area | Plant | *Your Plant Dallas* |
| Order quantity | Quantity to be produced or ordered according to the planned order. | 10 |
| End | Date, according to the planned order, that you should expect either the completion or the delivery of the planned order quantity. | *One Week from Today* |
| Producing plant | Plant in which the order quantity of the internally produced material is to be produced according to the planned order. | *Your Plant Dallas* |
| Storage Location | Location at which the material is stored. | *Your Finished Goods* |
| Production Version | Determines BOM and Routing | 01 |

* + 1. Click Save .
* You will receive a message that says, “Planned order will be created”.

1. What is the resulting document number?  
          🖉
   1. Convert Planned Order for Finished Goods

In this section, you will manually convert your planned production order into a production order. This authorizes that production may begin.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 MRP 🡪 Evaluations 🡪 Stock/Requirements List

* + 1. In the *“Stock/Requirements List: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Material | Number of the material for the order. | *Your Deluxe Touring Bike (Red)* |
| Plant | Key uniquely identifying a plant. | *Your Plant Dallas* |

* + 1. Press Enter on keyboard or Click Continue .
    2. In the *“Stock/Requirements List”* screen, double-click on *“PldOrd”* in the table.
    3. In the *“Additional Data for MRP Element”* pop-up, click -> Prod.ord .
* You will receive a message that says, “Release carried out”.
  + 1. In the *“Production order Create: Header”* screen, click Save .
* You will receive a message that says, “Order number saved”.

1. What is the resulting document number?  
          🖉
   1. Issue Materials to Production Order II

In this section, you will manually release (issue) the raw materials and semi-finished goods needed to produce the 10 bikes. This goods issue transaction posts the raw material and semi-finished goods costs to the production order, and decreases inventory from the Raw Materials storage location and from the Semi-Finished Goods storage location.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Shop Floor Control 🡪 Goods Movements 🡪 Goods Issue / Goods Receipt

* + 1. In the *“Goods Receipt Other”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Trans/Event | Drop-down menu | Goods Issue |
| Reference Document | Indicates the document you want to reference when you enter the transaction | Order |
| Order Number | Number assigned to order document | *Production Order Number* |
| Movement Type | Specifies a key for the type of goods movement | 261 |

* + 1. Press Enter on keyboard or Click .
    2. In the *“Goods Issue Order 1………”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Mat. Short Text** | **OK** | **SLoc** |
| ## Touring Aluminum Wheel Assembly | Selected | *Your Semi-Finished Materials* |
| ## Touring Frame-Red | Selected | *Your Raw Materials* |
| ## Derailleur Gear Assembly | Selected | *Your Raw Materials* |
| ## Touring Seat Kit | Selected | *Your Raw Materials* |
| ## Touring Handle Bar | Selected | *Your Raw Materials* |
| ## Pedal Assembly | Selected | *Your Raw Materials* |
| ## Chain | Selected | *Your Raw Materials* |
| ## Brake Kit | Selected | *Your Raw Materials* |
| ## Warranty Document | Selected | *Your Raw Materials* |
| ## Packaging | Selected | *Your Raw Materials* |

* + 1. Press Enter on keyboard or Click .
    2. Click Post .

1. What is the resulting document number?  
          🖉
   1. Confirm Production for Finished Goods

In the previous section, you released raw materials and semi-finished goods to the production order. You will now confirm completion of the bikes. Your Dallas plant completed all 10 bikes, so you verify a yield of 10.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Shop Floor Control 🡪 Confirmation 🡪 Enter 🡪 For Order

* + 1. In the *“Enter Production Order Confirmation: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Order | Order of which you wish to confirm production. | *Production Order Number* |

* + 1. Press Enter on keyboard or Click Continue .
    2. In the *“Confirmation of Production Order Enter: Actual Data”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Yield Quantity | Yield that you want to confirm for the operation. | 10 |

* + 1. Click Save .
* You will receive a message that says, “Confirmation of order saved”.
  1. Receive Finished Goods into Inventory

In the previous section, you confirmed the yield of the production process. You will now receive the 10 bikes into inventory. This goods receipt transaction increases inventory in the Finished Goods storage location.

* + 1. In the *“SAP Easy Access”* screen, follow the navigation path below:

Navigation

SAP Menu 🡪 Logistics 🡪 Production 🡪 Shop Floor Control 🡪 Goods Movement 🡪 Goods Issue / Goods Receipt

* + 1. In the *“Goods Receipt for Order: Initial Screen”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| Trans/Event | Drop-down menu | Goods Receipt |
| Reference Document | Indicates the document you want to reference when you enter the transaction | Order |
| Document Number | Document number assigned to the document you would like to reference | *Production Order Number* |
| Movement Type | Specifies a key for the type of goods movement | 101 |

* + 1. Press Enter on keyboard or Click .
    2. In the *“Goods Receipt for Order: New Items 0001”* screen, enter the following information:

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Description** | **Data Value** |
| OK | Indicates that the item is to be regarded as closed. | Selected |
| SLoc | Location at which the material is stored | *Your Finished Goods* |

* + 1. Click Post .
* You will receive a message that says, “Document posted”.

1. What is the resulting document?  
          🖉

Exercise Deliverables

**Name:**

**Course and Section:**

**Identifier:**

**Client:**

1. What is the Transaction Code to define a Work Center Location?  
    🖉
2. What is the T-Code to carry out overall maintenance of plant parameters?  
    🖉
3. What is the From Number for the planned order number range?  
    🖉
4. What is the To Number for the planned order number range?  
    🖉
5. What is the From Number for the purchase requisition number range?  
    🖉
6. What is the To Number for the purchase requisition number range?  
    🖉
7. What is the From Number for the MRP number range?  
    🖉
8. What is the To Number for the MRP number range?  
    🖉
9. What is the T-Code to define the production scheduling profile?  
    🖉
10. What is the T-Code to define the production scheduler?  
     🖉
11. What is the T-Code to define order types?  
     🖉
12. What is the description for order category 60?  
     🖉
13. What is the description for order category 30?  
     🖉
14. What is the description for order category 10?  
     🖉
15. What is the settlement profile text for PI01?  
     🖉
16. What is the settlement profile text for PP01?  
     🖉
17. What is the T-Code to define order dependent parameters?  
     🖉
18. Is the production version manual or automatic?  
     🖉
19. What is the description for the N application?  
     🖉
20. What is the description for the R application?  
     🖉
21. What is the description for the P application?  
     🖉
22. What is the BOM Application PP01 description?  
     🖉
23. When does the reservation of materials happen with purchase requisitions?  
     🖉
24. What is the T-Code to define Checking Groups?  
     🖉
25. What is the description for A?  
     🖉
26. What is the description for B?  
     🖉
27. What is the description for Availability check 01?  
     🖉
28. What is the description for Availability check 02?  
     🖉
29. What is the T-Code to define checking rules?  
     🖉
30. What is the description for checking rule “A”?  
     🖉
31. What is the description for checking rule “B”?  
     🖉
32. What is the description for checking rule “BQ”?  
     🖉
33. What is the T-Code to define the scope of check?  
     🖉
34. Is the Check without RLT box checked?  
     🖉
35. Is the Check without RLT box checked?  
     🖉
36. What does Check without RLT mean?  
     🖉
37. What is the T-Code to define a checking control?  
     🖉
38. What is the T-code to define scheduling parameter for production orders?  
     🖉
39. What is the T-Code to define confirmation parameters?  
     🖉
40. What is the T-Code to define the control key?  
     🖉
41. What is the description for the “+” external processing?  
     🖉
42. What does confirmation 3 represent?  
     🖉
43. How many operations are there for the Original Touring Bike (Black)?  
     🖉
44. Which work center does testing the bike occur in?  
     🖉
45. How many labor minutes does it take to test the bike?  
     🖉
46. What is the Control Key?  
     🖉
47. What is the define costing types T-Code?  
     🖉
48. What is the name of costing type 06?  
     🖉
49. What is the name of costing type 07?  
     🖉
50. What is the T-Code to define valuation variants?  
     🖉
51. What is the name for valuation variant 006?  
     🖉
52. What is the name for valuation variant 007?  
     🖉
53. What is the first priority for the strategy sequence?  
     🖉
54. What is the second priority for the strategy sequence?  
     🖉
55. What is the first priority for the strategy sequence?  
     🖉
56. What is the T-code to define costing variants?  
     🖉
57. What is the costing type key for Production Order: Planned?  
     🖉
58. What is the T-code to configure automatic posting?  
     🖉
59. What is the T-Code to define valuation of goods received?  
     🖉
60. What is the Transaction Code to view the Standard Value Keys?  
     🖉
61. What is the text for the Standard Value Key “SAP 4”?  
     🖉
62. What is the text for the Standard Value Key “SAP 2”?  
     🖉
63. What is the text for the Standard Value Key “SAP 1”?  
     🖉
64. What is the first Parameter?  
     🖉
65. What is the second Parameter?  
     🖉
66. What is the third Parameter?  
     🖉
67. What is the Keyword for Parameter SAP\_07?  
     🖉
68. What is the Keyword for Parameter SAP\_09?  
     🖉
69. What is the Keyword for Parameter SAP\_11?  
     🖉
70. What is the T-code to create a raw material?  
     🖉
71. What is the T-code to create a semifinished product?  
     🖉
72. What is the T-code to create a finished product?  
     🖉
73. What is the T-code to create a bill of materials?  
     🖉
74. What is the T-code to create activity type?  
     🖉
75. What does activity unit HR stand for and how is it different than Hour?  
     🖉
76. What is the T-code to change activity output/process?  
     🖉
77. What is the T-code to create a capacity?  
     🖉
78. What is the T-code to create a person responsible?  
     🖉
79. What is the T-code to create a work center?  
     🖉
80. What does Usage 004 represent?  
     🖉
81. What is the T-code to create a product routing?  
     🖉
82. What is your Touring Wheel Assembly group?   
     🖉
83. What is your Touring Wheel Assembly group counter?   
     🖉
84. What is your Deluxe Touring Bike (red) group?  
     🖉
85. What is your Deluxe Touring Bike (red) group counter?   
     🖉
86. What is the transaction code to create a production version?   
     🖉
87. What is the T-code to create “inventory from heaven”?  
     🖉
88. What is the T-code to create a planned order?  
      🖉
89. What planned order profile does KB represent?  
     🖉
90. What is the resulting document number?  
     🖉
91. What is the T-code to view the stock/requirements list?  
     🖉
92. What is the resulting document number?  
     🖉
93. What is the T-code to issue materials to production?  
     🖉
94. What is the resulting document number?  
     🖉
95. What is the T-code to confirm production?  
     🖉
96. What is the T-code to create a goods receipt?  
     🖉
97. What is the resulting document number?  
     🖉
98. What is the resulting document number?  
     🖉
99. What is the resulting document number?  
     🖉
100. What is the resulting document number?  
      🖉
101. What is the resulting document?  
      🖉