|  |  |
| --- | --- |
|  |  |
| Test Script  SAP S/4HANA - 15-09-20 | public |
| Make-to-Stock Production - Discrete Manufacturing (BJ5\_DE) |

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# Purpose

This scope item enables production planning in a make-to-stock scenario for finished goods managed by serial numbers.

The process starts with the creation of a demand forecast for finished goods represented by Planned Independent Requirements (PIRs). Based on PIRs, Material Requirements Planning (MRP) creates a production plan for finished goods and explodes the entire bill of material structure. As a result, semifinished component production and raw material demands are planned. Production planners can analyze and manually change the planned order based on production plan.

Raw material demands lead to purchase requisitions that trigger alternative procurement scenarios referenced in this scope item.

The production process covers the conversion of planned-into-production orders, order release, material staging and picking, confirmation of order operations, and goods receipt posting. Order-based targets and actual costs are created to ensure fully-integrated material and value streams.

This document provides a detailed procedure for testing this scope item after solution activation, reflecting the predefined scope of the solution. Each process step, report, or item is covered in its own section, providing the system interactions (test steps) in a table view. Steps that are not in scope of the process but are needed for testing are marked accordingly. Project-specific steps must be added.

# Prerequisites

This section summarizes all the prerequisites for conducting the test in terms of systems, users, master data, organizational data, other test data and business conditions.

## System Access

|  |  |
| --- | --- |
| System | Details |
| System | Accessible via SAP Fiori launchpad. Your system administrator provides you with the URL to access the various apps assigned to your role. |

## Roles

Assign the following business roles to your individual test users. Alternatively, if available, you can create business roles using the following spaces with pages and predefined apps for the SAP Fiori launchpad and assign the business roles to your individual test users.

Note These roles or spaces are examples provided by SAP. You can use them as templates to create your own roles or spaces.

For more information about business roles, refer to Assigning business roles to a user in the [Administration Guide to Implementation of SAP S/4HANA with SAP Best Practices](https://help.sap.com/viewer/S4HANA2020_AdminGuide) .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name (Role) | ID (Role) | Description (Space) | ID (Space) | Log On |
| Production Engineer - Discrete Manufacturing | SAP\_BR\_PRODN\_ENG\_DISC | Production Engineering - Discrete Manufacturing | SAP\_BR\_PRODN\_ENG\_DISC |  |
| Warehouse Clerk | SAP\_BR\_WAREHOUSE\_CLERK | Inventory Processing | SAP\_BR\_WAREHOUSE\_CLERK |  |
| Production Planner | SAP\_BR\_PRODN\_PLNR | Production Planning | SAP\_BR\_PRODN\_PLNR |  |
| Production Supervisor - Discrete Manufacturing | SAP\_BR\_PRODN\_SUPERVISOR\_DISC | Discrete Manufacturing Execution Management | SAP\_BR\_PRODN\_SUPERVISOR\_DISC |  |
| Production Operator - Discrete Manufacturing | SAP\_BR\_PRODN\_OPTR\_DISC | Discrete Manufacturing Execution | SAP\_BR\_PRODN\_OPTR\_DISC |  |

## Master Data, Organizational Data, and Other Data

The organizational structure and master data of your company has been created in your system during activation. The organizational structure reflects the structure of your company. The master data represents materials, customers, and vendors, for example, depending on the operational focus of your company.

Use your own master data or the following sample data to go through the test procedure.

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Details | Comments |
| Material | FG126 | Serial Number Managed Finished Good MTS |  |
| Material | SG21 | Semifinished Good Repetitive Manuf. |  |
| Material | SG22 | Semifinished Good Phantom |  |
| Material | SG23 | EMI23, PD, Subcontracting |  |
| Material | SG25 | Semifinished Good Ext. Procurement |  |
| Material | SG124 | Semifinished Good Subassembly |  |
| Material | RM13 | RAW13, PD, Subcontracting |  |
| Material | RM14 | RAW14, PD, Subcontracting |  |
| Material | RM16 | Raw Material Ext. Procurement |  |
| Material | RM17 | Raw Material Ext. Procurement |  |
| Material | RM18 | Raw Material Ext. Procurement |  |
| Material | RM20 | Raw Material Ext. Procurement Contract |  |
| Material | RM27 | RAW Material Packaging Box |  |
| Material | RM120 | RAW Material Ext. Procurement with QM in Procurement |  |
| Material | RM122 | RAW Material, Ext. Procurement, Batch controlled (FIFO-strategy) |  |
| Material | RM124 | RAW Material Ext. Procurement Consumption based |  |
| Material | RM128 | RAW Material Ext. Procurement with Consignment |  |
| Plant | 1010 | Plant 1 DE |  |
| Storage Location | 101A | Std. storage 1 |  |
| Storage Location | 101B | Std. storage 2 |  |
| Storage Location | 101C | Raw mat. sto. loc. |  |

Bill of Material Structure

This overview shows the bill of material structure and the usage of each component if you have activated all optional enhancements.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Material | Level | Material Type | Unit | Characteristics of Material | Optional Enhancements |
| FG126 | 0 | FERT | PC | Finished Good for MTS processing with Serial Number |  |
| SG21 | 1 | SEMI | PC | SF Repetitive Manufacturing | Only if Make-to-Stock Production - Repetitive Manufacturing (BJH) scope item is activated. |
| RM12 | 2 | RAW | PC | External procured |  |
| SG22 | 1 | SEMI | PC | SF, Phantom Assembly |  |
| RM16 | 2 | RAW | PC | External procured |  |
| RM17 | 2 | RAW | PC | External procured |  |
| RM18 | 2 | RAW | PC | External procured |  |
| RM120 | 1 | RAW | PC | External procured with Quality Management |  |
| RM122 | 1 | RAW | PC | External procured with Batch Management |  |
| RM128 | 1 | RAW | PC | External procured with Consignment Processing | Only if Scheduling Agreements in Procurement (BMR) scope item is activated. |
| SG23 | 1 | SEMI | PC | External procured with subcontract |  |
| RM13 | 2 | RAW | PC | External procured |  |
| RM14 | 2 | RAW | PC | External procured |  |
| SG25 | 1 | SEMI | PC | SEMI25, PD, External Procurement |  |
| SG124 | 1 | SEMI | PC | Internal production of subassembly (MTS strategy) |  |
| RM124 | 2 | RAW | PC | External procured using Fixed Bin |  |
| RM20 | 1 | RAW | PC | External procured contract |  |
| RM27 | 1 | RAW | PC | External procured – Packaging Box |  |

For more information on creating master data objects, see the following [Master Data Scripts (MDS)](https://support.sap.com/content/dam/SAAP/Sol_Pack/BP_OP_ENTPR/BP_OP_ENTPR_S4HANA2020_7_Master_Data_EN_XX.htm)

Table 1: Master Data Script Reference

|  |  |
| --- | --- |
| Master Data ID | Description |
| BNR | Create Product Master of Type "Raw Material" |
| BNS | Create Product Master of Type "Semi-Finished Good" |
| BNT | Create Product Master of Type "Finished Good" |
| BNJ | Create Production Work Center |
| BNK | Create Material BOM for Production and Sales |
| BNL | Create Routing |
| BLD | Create Production Version |

## Business Conditions

Before this scope item can be tested, the following business condition must be met.

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| BEG - Standard Cost Calculation | You have completed the step described in the Standard Cost Calculation (BEG) test script. |
| BNZ - Create New Open MM Posting Period | You have completed the step described in the Create New Open MM Posting Period (BNZ) master data script. Posting Period is up to date. |
| 1ZI - Basic Handover of Bill of Material (Optional) | If you are going to execute Make-to-Stock Production - Discrete Manufacturing (BJ5) with Product Lifecycle Management Sample Master Data, as a succeeding process of Basic Handover of Bill of Material (1ZI), you must have completed the steps described in 1ZI to create a Manufacturing Bill of Material (MBOM) from an Engineering Bill of Material (EBOM). This Manufacturing Bill of Material (MBOM) can be used in this test script to create a production version as described in the Preliminary Steps section. |
| 1R5 - Bill of Material - Mass Change (Optional) | The test script Bill of Material - Mass Change (1R5) describes the controlled mass change and replacement process for one or more Engineering Bill of Material (EBOM). This process is also valid to change a Manufacturing Bill of Material (MBOM). A MBOM created in 1ZI can be used as a reference to change a Manufacturing BOM. |

## Preliminary Steps

### Manufacturing Bill of Material - Mass Change (Optional)

Purpose

After you have implemented Basic Handover of Bill of Material (1ZI), you can use the generated Manufacturing BOM to test the replace material functionality for Manufacturing BOM. To display the list of all manufacturing BOMs for the specified materials, make the entry BOM Usage: 1.

Procedure

1R5: Bill of Material - Mass Change, using BOM Usage: 1.

### Create Production Version for Master Data used in 1ZI (Optional)

Purpose

If you want to execute this test script as a succeeding process after implementing Basic Handover of Bill of Material (1ZI) test script, and use the Manufacturing BOM created in 1ZI, you need to create a product version for master data used in 1ZI. Otherwise, skip this step and move forward.

This process step shows you how to create production version for master data used in Basic Handover of Bill of Material test script.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Engineer - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Production Versions (F2568). | The Production Version: Mass Processing screen displays. |  |
| 3 | Enter Plant and Material | On the Production Version: Mass Processing screen, make the following entries and choose Enter:   * Plant: 1010 * Material: FG126 |  |  |
| 4 | Create a Production Version | Choose the Create Production Version icon. | The Maintain Production Version: Detail Screen dialog box displays. |  |
| 5 | Enter Production Version Details | In the Maintain Production Version: Detail Screen dialog box, make the following entries:   * Material: FG126 * Production Version： select a production version that doesn't exist already * Short Text for Production Version: <FIN126, MTS-DI, PD, Batch- Fifo, Serial No> * Minimum Lot Size: <1> * Maximum Lot Size: <99,999,999.000> * Valid from: <current date> * Valid to: <12/31/9999> |  |  |
| 6 | Enter Task List Details | In the Task List section, in the Detailed planning - Group field, use the value help and proceed as follows:   1. In the Restrict Value Range dialog box, choose C: Search using material. 2. Make the following entries:    * Material: FG126    * Plant: 1010 3. Choose Find. 4. Select one entry. 5. Choose Copy (Enter). | The values in Task List Type, Group and Group Counter are populated. |  |
| 7 | Enter BOM Details | In the Bill of Material section, in the Alternative BOM field, use the value help and proceed as follows:   1. In the Alternative BOM 1 Entry dialog box, select one entry which is created in 1ZI. 2. Choose Copy (Enter). | The values in Alternative BOM and BOM Usage are populated. |  |
| 8 | Check Production Version | In the Maintain Production Version: Detail Screen dialog box, choose Check. | The Maintain Production Version: Detail Screen dialog box displays. |  |
| 9 | Check and Close the Consistency Check Log | In the Maintain Production Version: Detail Screen dialog box, check the following entries:   * Task list exists * BOM exists | No error messages exist. |  |
| 10 | Save Production Version Details | In the Maintain Production Version: Detail Screen dialog box, choose Save Changes and Close Screen. | The Maintain Production Version: Detail Screen dialog box displays. |  |
| 11 | Save | On the Production Version: Mass Processing screen, choose Save. | The system saves the production version. |  |

Result

A production version for FG126 is created.

If you want to use this production version for FG126 to go through the test procedure, make sure that it is the valid production version determined during your test, which depends on the Explosion Date, Order Quantity, and so on.

### Create Initial Material Stock

Purpose

In a real business scenario, initial material stock are usually purchased from external suppliers through standard purchasing or subcontracting processes. For only testing purpose, this process step shows you how to create and post the initial material stock to storage locations directly.

Prerequisite

Before creating initial material stocks, we recommend that you check stock level for SG124 and FG126. To do that, log onto the SAP Fiori launchpad as a Production Planner, and open Check Material Coverage (F0251) app. Remove some stock if there is already sufficient amount of stock in store. Otherwise, no planned orders can be generated later. You can either post initial stock directly to the storage locations, or refer to test scripts from Procurement of Direct Materials (J45) or Scheduling Agreements in Procurement (BMR) test scriptsfor purchasing processes.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Warehouse Clerk. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Post Goods Movement (MIGO). | The Post Goods Movement (MIGO) screen displays. |  |
| 3 | Choose Document Type | Choose Goods Receipt and Others. |  |  |
| 4 | Enter Data | In the Detail Data section, make the following entries and press Enter. Choose Next Item and select Item OK to add entries.  On the Where tab:   * Goods Movement Type: 561 * Plant: 1010 * Storage Location: 101B for SGXX and 101C for RMXX materials   On the Quantity tab:   * Quantity: <Quantity>, for example, <100 PC>   On the Material tab:   * Material: <BOM Material>, refer to section Master Data, Organizational Data, and Other Data for Bill of Material Structure. You must create initial stock for all materials except for SG124 and FG126. |  |  |
| 5 | Check | Choose Check. | The document is ready to be posted. |  |
| 6 | Post | Choose Post. | Material document XXX is posted and materials are available in stock. |  |

# Overview Table

This scope item consists of several process steps provided in the table below.

If your system administrator has enabled spaces and pages on the SAP Fiori launchpad, the homepage will only contain the essential apps for performing the typical tasks of a business role.

You can find all other apps not included on the homepage using the search bar.

If you want to personalize the homepage and include the hidden apps, navigate to your user profile and choose Settings > App Finder .

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step | Business Role | Transaction/App | Expected Results |
| [Create Planned Independent Requirements](#unique_11) [page ] 15 | Production Planner | Maintain PIRs (F3445) | Independent Requirements for Finished Goods are created. |
| [Material Requirements Planning at Plant Level](#unique_12) [page ] 16 | Production Planner | Schedule MRP Runs (F1339) | Independent Requirements for Finished Goods are planned. |
| [Evaluate Stock/Requirements Situation](#unique_13) [page ] 18 | Production Planner | Monitor Material Coverage - Net / Individual Segments (F2101) | Stock/Requirements situation for the planned materials are analyzed. |
| [Conversion to Production Orders for Subassembly and Final Assembly](#unique_14) [page ] 21 | Production Planner | Check Material Coverage (F0251) | Planned Orders for Finished Goods and Semi-finished Goods are converted to Production Orders. |
| [Review Material Availability Status for Production Orders](#unique_15) [page ] 22 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) | Missing parts for the production order are displayed. |
| [Material Staging for Subassembly](#unique_16) [page ] 24 | Production Operator - Discrete Manufacturing | Stage Materials for Production (MF60) | The components needed for the Semi-finished Goods production order are moved from various storage locations to the production storage location. |
| [Release Production Order for Subassembly](#unique_17) [page ] 26 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) | Production order for Semi-finished Goods is released. |
| [Confirm Production Operations for Subassembly](#unique_18) [page ] 28 | Production Operator - Discrete Manufacturing | Confirm Production Operation (F3069) | Production order for Semi-finished Goods is confirmed. |
| [Post Goods Receipt for Subassembly Production Order](#unique_19) [page ] 29 | Warehouse Clerk | Post Goods Movement (MIGO) | The goods receipt for the Semi-finished Goods is posted. |
| [Material Staging for Final Assembly](#unique_20) [page ] 31 | Production Operator - Discrete Manufacturing | Stage Materials for Production (MF60) | The components needed for the Finished Goods production order are moved from various storage locations to the production storage location. |
| [Release Production Order for Final Assembly](#unique_21) [page ] 33 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) | Production order for Finished Goods is released. |
| [Check Serial Numbers](#unique_22) [page ] 35 | Production Operator - Discrete Manufacturing | Display Production Order (CO03) | The serial numbers for Finished Goods are generated. |
| [Pick Components for Final Assembly](#unique_23) [page ] 36 | Production Operator - Discrete Manufacturing | Pick Components for Production Orders (CO27) | Goods movements are posted. |
| [Confirm Production Operations for Final Assembly](#unique_24) [page ] 37 | Production Operator - Discrete Manufacturing | Confirm Production Operation (F3069) | Operations except for last one are confirmed. |
| [Review Production Order](#unique_25) [page ] 39 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) |  |
| [Final Confirmation of Production Operations for Final Assembly](#unique_26) [page ] 41 | Production Operator - Discrete Manufacturing | Confirm Production Operation (F3069) | Final confirmation of the last operation is carried out. |
| [Post Goods Receipt for Final Assembly Production Order](#unique_27) [page ] 42 | Warehouse Clerk | Post Goods Movement (MIGO) | The goods receipt for the production order is posted. |
| [Review Scrap Report](#unique_28) [page ] 44 | Production Supervisor - Discrete Manufacturing | Material Scrap (F2035) - Maximum Deviation |  |
| [Review Manufacturing Object Pages](#unique_29) [page ] 45 | Any role for production listed in chapter Roles | Search function |  |

# Test Procedures

This section describes test procedures for each process step that belongs to this scope item.

## Anonymous Forecast and MRP

### Create Planned Independent Requirements

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to create Planned Independent Requirements (PIRs). PIRs are used to perform demand management functions. A planned independent requirement contains one planned quantity and one date, or a number of planned independent requirements schedule lines, such as one planned quantity split according to dates.

Note Instead of creating a single requirement, sometimes one or more planned independent requirements can be maintained and included in a requirement plan for mass processing. In this case, the requirements are grouped and maintained under a requirement plan number.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Maintain PIRs (F3445). | The Maintain PIRs screen displays. |  |
| 3 | Check Default Setting | Choose the user icon, and select App Settings.  In the MRP Settings dialog box, choose Area of Responsibility.  On My Area of Responsibility screen, check if the below entry is assigned:  Plant 1 DE (1010)  MRP Controller 001 (001)  Choose AOR Status if the status for the above entry is not yet assigned.  Choose AOR Status to unassign the rest of other entries. |  |  |
| 4 | Select Material Items | On the Maintain PIRs screen, make the following entries and choose Go:   * Plant: 1010 * Period Indicator: Weekly(W) or Monthly(M) * Version Active: Yes, No * Material: FG126 | The searched material item displays. |  |
| 5 | Edit PIRs | Select the material item and choose Edit in the upper right corner of the screen.  On the Edit PIRs screen, enter quantities per week, for example:   * PIR: <Quantity>, for example, <100> * Version is Active: YES |  |  |
| 6 | Save PIRs Draft | Choose Save in the bottom right corner of the screen. | The PIRs draft is saved. |  |

### Material Requirements Planning at Plant Level

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to use Material Requirement Planning (MRP) to tailor available capacities and receipts on time to suit requirement quantities. As a result, single-item multi-level requirement planning is performed for plant 1010.

Prerequisite

The Make-to-Stock finished goods are planned at plant level. There is now a requirement for FG126 in plant 1010.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Schedule MRP Runs (F1339). | The Application Jobs screen displays. |  |
| 3 | Create New Job | Choose Create.  On the New Job screen, make the following entries:  For 1. Template Selection section:   * Job Template: Material Requirement Planning (MRP) * Job Name: <MRP for FG126   Choose Step 2.  For 2. Scheduling Options section:   * Start Immediately: <select>   Choose Define Recurrence Pattern.  On the Scheduling Information screen, make the following entries:   * Start Immediately: X * Recurrence Pattern: Single Run   Choose OK.  Choose Step 3.  For 3 Parameters section:   * Plant: 1010 * Material: MRP for FG126 * Changed BOM Components: select * Planning Mode: 1   Choose Check at the bottom right.  Choose Schedule. | A message appears: You can go ahead and schedule the job. |  |
| 4 | Refresh Application Jobs List | To check the job’s status, enter MRP for FG126 in the search box and choose Go at the top right section of the screen. | The new job is created and is displayed in the Application Jobs table when refreshed. |  |

### Evaluate Stock/Requirements Situation

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to display the stock/requirements situation for Make-to-Stock finished goods (FG126) in the stock/requirements list after the requirement planning is performed.

Prerequisite

Requirement planning is carried out.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Monitor Material Coverage - Net / Individual Segments (F2101). | The Monitor Material Coverage - Net / Individual Segments (F2101) screen displays. |  |
| 3 | Select Material | Search in the Material bar, select the following materials and then choose Manage Materials at the bottom right of the screen:   * Material: FG126 * Material: SG124 | The Material and Material Details subscreens display. |  |
| 4 | Review Stock / Requirements List | Select the corresponding material on the Material screen on the left side. | The detailed stock / requirements list for each material displays. |  |
| 5 | Display Planned Order | From the list on the Material subscreen on your left, select the material for which you want to check for the planned order.   * Material: FG126 * Material: SG124   On the Material Details subscreen, choose PldOrd XXXX in the MRP Element column.  Note The BOM explosion during the MRP run has generated dependent requirements for the demand-driven planned components. If there is not enough inventory to fulfill the requirements, planned orders and purchase requisitions are created for both inhouse-produced and externally-procured materials.  Depending on the elements created in the MRP run, refer to Procurement of Direct Materials  (J45) or Scheduling Agreements in Procurement (BMR) test scripts for processing externally-procured materials. | The selected planned order displays.  The planned order is generated only when there is storage for these materials.  If you want to display more information of the planned order, choose Open... > Planned Order at the bottom right of the dialog box. |  |
| 6 | Rescheduling Check (Optional) | On the Stock/Requirements List tab, the Rescheduling column displays the rescheduling status of the following MRP elements.   * PurReq * Purchase Orders * Planned Orders * Production Orders * Process Orders   If needed,you can choose the following icons in Rescheduling column for corresponding functions:   * Reschedule in (bring operation forward if the receipt element lies after the requirement date) * Reschedule out (postpone operation, if the receipt element lies before the requirement date) * Plan Process according to schedule * Cancel Process * Excess Stock * Excess in individual segment |  |  |

## Production Order Convertion and Available-to-Promise Check

### Conversion to Production Orders for Subassembly and Final Assembly

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

Daily MRP run creates planned orders for goods to be produced internally. This process step shows you how to convert the planned orders to production orders for both semifinished goods and finished goods when reached the planned start date.

Prerequisite

The MRP run has generated planned orders for SG124 (subassembly) and FG126 (final assembly).

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Check Material Coverage (F0251). | The Check Material Coverage displays with Find Material dialog box. |  |
| 3 | Select Material | Enter the following data in the Find Material dialog box and choose OK.   * Material: FG126 * Plant: 1010 * Shortage Definition: MRP Standard | The Manage Material Coverage screen displays. |  |
| 4 | Find Planned Order | Check the generated planned order.  If no planned orders are generated, it could be because FG126 has sufficient amount of stock in store. In this case, remove some stock. Go back to create PIRs and run MRP again to generate planned orders. |  |  |
| 5 | Convert Planned Order to Production Order | Select Convert from Edit dropdown list in the Action column for a planned order (PldOrd XXXX).  In the Convert Planned Order XXXX dialog box, choose Convert to Production Order radio button, confirm End Date and Quantity. Choose OK.  Repeat steps 2 to 5 for material SG124. | The production order is created. |  |

### Review Material Availability Status for Production Orders

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to review material availability status for production orders.

Prerequisite

Production orders are created for subassembly and final assembly.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Production Orders (F2336). |  |  |
| 3 | Check Default Area of Responsibility (Supervisor) | Choose the user icon and select App Settings. In the Area of Responsibility dialog box, choose Production Supervisor.  Check if only this entry displays, and choose OK:  Plant 1DE 1010  MTS DI- Valuated (YB1)  Choose + to select this entry if not displayed; choose the Delete icon to remove any other plant entries and then choose OK. | The Manage Production Order screen displays. |  |
| 4 | Select Production Order | On the Manage Production Orders (F2336) screen, choose Adapt Filters to display more filter options.  In the Adapt Filters dialog box, choose More Filters. Select Material and Production Plant and choose OK. Choose Go.   * Status: Created * Material: FG126 * Production Plant: 1010 | The Material and Production Plant fields are added to the filter bar.  The searched order displays. |  |
| 5 | Review Material Availability Status | In the Issue column, choose the Component Issue icon to display the missing components.  Repeat steps 4 to 5 for material SG124. | For FG126, the expected missing components are RM122, RM120, RM20, SG124. The raw materials are supplied after the Material Staging for Final Assembly step.  For SG124, the expected missing components is RM124. The semifinished goods are supplied after Release Production Order for Subassembly step.  Note However, it’s also possible that SG124 is not a missing component for the final assembly production order. This happens when you have SG124 supplied (released production order for SG124 or unrestricted stock) already, but it's not yet reserved by any final assembly production orders. |  |

## Production Order Processing for Subassembly

### Material Staging for Subassembly

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to stage materials for subassembly production.

Note If there is sufficient amount of stock available in the production storage location, then no line items are generated. In this case, you can skip this step and proceed onward.

Prerequisite

Stock must be available.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Operator - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Stage Materials for Production (MF60). | The Material Staging for Planned Orders screen displays. |  |
| 3 | Enter Details | Make the following entries and choose Execute.  In the Staging Types section:   * SLoc Level: <select> * Plant: 1010 * Selection Horizon for Reqmts: <date must be in the future - after scheduled start date>   On the Production/Process Orders tab:  Order: <Production Order Number for Semi-finished Goods> | The Pull List: Storage Location Level screen displays. |  |
| 4 | Choose Replenishment Elements | In the Total Reqmts table, select the line items and choose Replenishment Proposal on the top of the screen.  Review staged quantities and choose Replenishment Elements. |  |  |
| 5 | Enter Replenishment Storage Location and Stage Material | In the Replen. Element table, in the RepLoc column, enter 101C for staged materials.  Choose Stage. |  |  |
| 6 | Save | Save your entries.  Missing materials are transferred to the shop floor from the designated storage area.  With this step, the shortage of material RM124 for Subassembly production order is supplied. | Materials are staged for subassembly. |  |

### Release Production Order for Subassembly

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to release the order at header level, which releases the entire order and all its operations. The order and the operations receive the REL (released) status.

Prerequisite

The production order created by the MRP controller is assigned a release date in accordance with the scheduling margin key.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Production Orders (F2336). | The Manage Production Order screen displays. |  |
| 3 | Check Default Area of Responsibility (Superviosr) | Choose the user icon and select App Settings. In the Area of Responsibility dialog box, choose Production Supervisor, check if this entry displays and choose OK:  Plant 1DE (1010)  MTS DI - Valuated (YB1)  Choose + to select this entry if not displayed; choose the Delete icon to remove any other plant entries. Choose OK. |  |  |
| 4 | Select Production Order | On the Manage Production Orders screen, choose Adapt Filters to display more filter options. In the Adapt Filters dialog box, choose More filters. Select Material and Production Plant and choose OK. Choose Go.  Enter the following filter criteria, and choose Go:   * Status: Created * Material: SG124 * Production Plant: 1010 | The Material and Production Plant fields are added to filter bar.  The searched order displays. |  |
| 5 | Execute Release | Select the searched order. Choose Release. | The order is released.  Note With the release of production order for subassembly production, the shortage of material SG124 for final assembly production order is supplied. |  |

### Confirm Production Operations for Subassembly

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

The confirmation documents include the processing status of orders, operations, sub-operations, and individual capacities. It is an instrument for controlling orders. This process step shows you how to confirm subassembly production order operations for semifinished material SG124. A goods movement documents is generated when the last operation is confirmed. The backflush is carried out together with the confirmation steps.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Operator - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Confirm Production Order Operation (CO11N). | The Enter Time Ticket for Production Order screen displays. |  |
| 3 | Enter Time Ticket for Production Order | On the Enter Time Ticket for Production Order screen, make the following entries:   * Order: <Production Order Number for semifinsihed goods> * Operation: <operation number> for example, <0010>   Choose Enter to show related information of the production order. |  |  |
| 4 | Enter Yield and Labor | Make the following entries:   * Confirm. type: Final confirmation * Yield: <Quantity of prod. order less scrap> * Scrap: <enter the amount you want to Scrap> * Setup: <Setup time that you want to confirm for this operation> * Machine: <Machine time that you want to confirm for this operation> * Labor: <Labor time that you want to confirm for this operation> |  |  |
| 5 | Choose Goods Movements | Choose Goods Movements screen. | The system shows you an overview table of all materials for which the withdrawing is done automatically with the confirmation of the operation.  The material RM124 is set for backflush (in material master) so that the withdrawing is done automatically after you confirm the operation. |  |
| 6 | Save your Entries | Choose Post to save.  Note If not on Goods Movements screen, choose Save to post. | Confirmation is saved. |  |
| 7 | Repeat Steps | Repeat steps 3,4 and 6 for Operation 0020. |  |  |

### Post Goods Receipt for Subassembly Production Order

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to post the goods receipt for subassembly production order.

Prerequisite

The final confirmation of production for semifinsihed goods is made.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Warehouse Clerk. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Post Goods Movement (MIGO). | The Display Material Document screen displays. |  |
| 3 | Enter Goods Receipt Order Data | Make the following entries:  Select Goods Receipt and Order from the dropdown list on top of the screen.   * Order: <Production order number for semifinished goods> * GR/RI Slip No.: <101> * Document date: <default> * Posting date: <default> |  |  |
| 4 | Enter Data and Post Goods Receipts | Enter the following entries, and select Item OK for each item:  On the Quantity tab:   * Quantity: <quantity>   On the Where tab:   * Storage Location: 101BStd. storage 2   Choose Check, then choose Post. | The system displays the message: Material document 500xxxxxxx posted |  |

## Production Order Processing for Final Assembly

### Material Staging for Final Assembly

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to stage materials for final assembly production.

Note If there is sufficient stock available in the production storage location, then no line items are generated.

Prerequisite

Stock must be available.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Operator - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Stage Materials for Production (MF60). | The Material Staging for Planned Orders screen displays. |  |
| 3 | Enter Details | Make the following entries and choose Execute.  In the Staging Types section:   * SLoc Level: <select> * Plant: 1010 * Selection Horizon for Reqmts: <date must be in the future - after scheduled start date>   On the Production/Process Orders tab:   * Order: <Production Order Number for finished Goods> | The Pull List: Storage Location Level screen displays. |  |
| 4 | Choose Replenishment Elements | In the Total Reqmts table, select the line items and choose Replenishment Proposal on the top of the screen.  Review staged quantities and choose Replenishment Elements. |  |  |
| 5 | Enter Replenishment Storage Location and Batch Number | In the Replen. Element table, in the RepLoc column, enter 101C for staged materials.  Choose Batch Determination to assign batches for material that require batch numbers, such as RM122. Check the proposed batch and quantity. Adopt if needed and confirm your selection with Copy. |  |  |
| 6 | Stage and Save | Choose Stage and choose Save.  Missing materials are transferred to the shop floor from the designated storage area.  The shortage of raw material for final assembly production order is supplied with this step. | Material is staged for final assembly. |  |

### Release Production Order for Final Assembly

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

A release at order operation level results in the release of the order and all its operation. The order and the operations receive the REL (released) status.

Prerequisite

The production order created by the MRP controller is assigned a release date in accordance with the scheduling margin key.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Production Orders (F2336). |  |  |
| 3 | Check Default Area of Responsibility (Supervisor) | Choose the user icon and select App Settings. In the Area of Responsibility dialog box, choose Production Supervisor, check if this entry displays and choose OK:  Plant 1DE (1010)  MTS DI - Valuated (YB1)  Choose + to select this entry if not displayed; choose the Delete icon to remove any other plant entries. Choose OK. |  |  |
| 4 | Select Production Order | On the Manage Production Orders screen, choose Adapt Filters to display more filter options. In the Adapt Filters dialog box, choose More filters. Select Material and Production Plant and choose OK. Choose Go.  Enter the following filter criteria, and choose Go:   * Status: Created * Material: FG126 * Production Plant: 1010 | The Material and Production Plant fields are added to the filter bar.  Corresponding orders display. |  |
| 5 | Scenario A: In a typical case, you directly release the production order. | Select the order to be released.  Choose Release in the top right corner. | The Release carried out message displays and the order is released.  If Releae Order dialog box displays with message Non-Availability of Material, it means there is not sufficient stock stored for FG126's components.  You can either choose Release Order in the dialog box to release order directly. Or you can choose to go back to the Create Initial Material Stock preliminary step to post more initial material stock. When enough material stock is posted, complete production order processing for semifinished goods, and then release production order for final assembly. |  |
| Scenario B: Release production order after releasing work production order from Rework Processing - Work-in-Process (BJQ) test script. | On the Manage Production Orders screen, choose Edit Order in the top right corner.  On the production order change Header screen, choose More > Functions > Release .  Ensure REL displays in the Status field.  Choose Save. |

### Check Serial Numbers

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

The finsihed goods material is managed with serial numbers. The system generates a serial number for each finished good when the production order is released. This process step shows you how to check the serial numbers.

Prerequisite

The serial number profile is defined in the material master record and the production order is released.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Operator - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Display Production Order (CO03). |  |  |
| 3 | Enter the Number | Make the following entry and choose Continue:   * Order: <production order number for finished goods> | The Prodcution Order Display: Initial Screen displays. |  |
| 4 | Navigate to Serial Number Screen | Choose > More > Header > Serial Number on the top of the screen. | The Display Serial Number dialog box displays. |  |
| 5 | Check the Serial Number | In the Display Serial Numbers dialog box, the serial numbers generated during production order release are listed. Make a note of the serial numbers. |  |  |
| 6 | Back | Close the dialog box and choose Back icon. |  |  |

### Pick Components for Final Assembly

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to pick components for final assembly, which are not in the service stock at the assembly line. For picking, the warehouse manager selects the specific picking list that can be called up directly with the production order number. The warehouse manager has a series of further selection options for optimal worklist selection.

Prerequisite

Ensure there is sufficient amount of component in the service stock. To check the stock level, you can use the warehouse user role to access the Display Stock Overview (MMBE) App.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Operator - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Pick Components for Production Orders (CO27). | The Picking List: Initial Screen displays. |  |
| 3 | Enter Relevant Search Criteria | Make the following entries and choose Execute.   * Profile: <000002> * Production Order: <production order for finished goods> | The Order Information System: Detail List of Components screen displays. |  |
| 4 | Picking | Select the relevant reservations and choose Picking. | A list of all the selected reservations displays. |  |
| 5 | Batch Determination | Some materials, such as RM122, are managed by batch numbers.  Select relevant line item and choose Batch Determination to assign batch numbers. | The Batch Determination MM: Select Batches screen displays. |  |
| 6 | Enter Detail | Make the following entry and choose Copy:   * Split Quantity: <spilt quantity> |  |  |
| 7 | Post | Choose Post to post the goods movements. | The goods movements is posted. |  |

### Confirm Production Operations for Final Assembly

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

The confirmation documents include the processing status of orders, operations, sub-operations, and individual capacities. It is an instrument for controlling orders. This process step shows you how to use time event confirmation.

Note In a real business scenario, some operations produce scrap due to operational or component defects. If you want to activate this process, refer to Rework Processing - Work-in-Process (BJQ) test script.

Prerequisite

The production order for finished goods is released.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Operator - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Confirm Production Order Operation (CO11N) |  |  |
| 3 | Enter Time Ticket and Confirm | On the Enter Time Ticket for Production Order screen, make the following entries and press Enter:  If a dialog box displays, choose Yes.   * Order: <production order number for finsihed goods> * Operation: <operation number>, for example, <0010> |  |  |
| 4 | Enter Final Confirmation Data | Make the following entries and choose Save:   * Confirm. type: Final confirmation * Yield: <Quantity of prod. order less scrap>, enter the amount you want to confirm * Scrap: <the amount you want to Scrap> * Setup: <Setup time that you want to confirm for this operation> * Machine: <Machine time that you want to confirm for this operation> * Labor: <Labor time that you want to confirm for this operation> * Reason for Val: <the scrap reason if required, such as,0001> |  |  |
| 5 | Repeat Steps | Repeat steps 1 to 4 for Operation <020> and <030>. | The final confirmation for the assembly order is made. |  |

### Review Production Order

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to display and check the production order for finished goods after its release or confirmation.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Production Operations (F2335) | The Manage Production Operations screen displays. |  |
| 3 | Select Production Order | On the Manage Production Operations screen, choose Adapt Filters to display more filter options.  In the Adapt Filters dialog box, choose More Filters. Select Material and Plant and choose OK. Choose Go.  Enter the following filters criteria and choose Go.   * Material: FG126 * Plant: 1010 | The Material and Plant fields are then added to filter bar.  Selected order displays. |  |
| 4 | Check Detailed Operations Status | Check detailed information for selected production operations.   * Operation Issue:   1. Empty if there is no production order issue.   2. Delay or Missing Components / PRT issue or Quantity Deviation / Quality Issue information shows if relevant issue exists. * Components:   Material, total quantity and Issued / open quantity information for order components displays.   * Order Schedule:   Detailed operation information with relevant work center, confirmed quantity, start and end time displays.   * Work Center Schedule:   The relevant order covering the same work center capacity (operation is partially confirmed) displays.   * Operations not Started:   The relevant order that would cover the same work center capacity (operation is released) displays.   * Confirmation:   Detailed confirmation information with Yield, Scrap, Rework quantity displays if confirmation has been executed.   * Inspection:   Detailed inspection lots information displays if existed. | Detailed operations status displays. |  |

### Final Confirmation of Production Operations for Final Assembly

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to execute confirmations of all assembly activities of the production order before posting the goods receipt. The backflush is carried out together with the confirmation steps.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Operator - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Confirm Production Order Operation (CO11N). | The screen displays. |  |
| 3 | Enter Time Ticket and Confirm | On the Enter Time Ticket for Production Order screen, make the following entries and press Enter:   * Order: <Production order number for finsihed goods> * Operation: <last operation number>, for example, 0040. * Confirm. type: Final confirmation |  |  |
| 4 | Enter Data and Save | Make the following entries and save your entries:   * Yield: <Quantity of prod. order less scrap>, enter the amount you want to confirm * Scrap: <enter the amount you want to Scrap>, enter this quantity if you want to run scrap report. | The final confirmation of the last operation is performed. |  |

### Post Goods Receipt for Final Assembly Production Order

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to post the goods receipt for production order of final assembly.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Warehouse Clerk. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Post Goods Movement (MIGO). |  |  |
| 3 | Enter Goods Receipt Order | Choose Goods Receipt > Order in the header area and make the following entries:   * Order: <production order number for finished goods> * GR goods receipt: <101> * Document date: <default> * Posting date: <default>   On the General tab, next to the Printer icon, select Print via Output Control (mouseover) checkbox, and choose Individual Slip. |  |  |
| 4 | Enter Quantity | On the Quantity tab, confirm production order quantities.  On the Where tab, enter the following entry:   * Storage Location: <101A (Std. storage 1)>   On the Serial Numbers tab, select all the serials numbers for the yield quantities except the scrap ones. |  |  |
| 5 | Set Item OK and Post | Select the Item OK checkbox and choose Post. | The system displays the message Material document 500xxxxxxx posted. |  |

## Review Scrap Report

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to review the scrap report.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Supervisor - Discrete Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Material Scrap (F2035)-Maximum Deviation. | The Material Scrap screen displays. |  |
| 3 | Investigate Scrap | Materials Scrap can be displayed by various filters.  You could choose the corresponding material in Chart to display the details. |  |  |

## Review Manufacturing Object Pages

Test Administration

Customer project: Fill in the project-specific parts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case ID | <X.XX> | Tester Name |  | Testing Date | Enter a test date. |
| Business Role(s) |  | | | | |
| Responsibility | <State the Service Provider, Customer or Joint Service Provider and Customer> | | | Duration | Enter a duration. |

Purpose

This process step shows you how to review different object pages available for different roles in the manufacturing process.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as a Production Planner.  Note You can use any role in section Roles above. | The SAP Fiori launchpad displays. |  |
| 2 | Search Material | Choose the Search icon in the upper right part of the screen.  Make the following entries and choose Search:   * Search: <BOM Header Material>, refer to section Master Data, Organizational Data, and Other Data. | The system displays a list of objects using the selected material. |  |
| 3 | Display Object | In the All field, select an object from the dropdown list and choose the Search icon. | The displaying list of objects is limited to the object type selected. If no object is selected, a message would display instead. |  |
| 4 | Tailor the Result Display | Under the search line, choose an icon (for example, filter, display as table, sort and so on) to filter the results list. | The results list is filtered according to your selections. |  |
| 5 | Repeat Steps | Repeat steps 1 to 5 for any other role in this test script and any other object offered in the search function. | The result list of objects displayed differs by the role you use to log on. |  |

# Appendix

## Succeeding Processes

After completing the activities in this test script, you can continue testing the following business processes:

|  |  |
| --- | --- |
| Process | Business Condition |
| Technical Completion of Production Order (Optional) | You can access Schedule Order Technical Completion Run (F3841) app as a Production Supervisor - Discrete Manufacturing to schedule a job to set production orders as Technical Completion.  If you need to set a production order as Technical Completion separately, you can access Check Material Coverage (F0251) app as a Production Planner, find your production order and select Delete. |
| BEI - Period-End Closing - Plant (Optional) | These are executed collectively as a part of month-end closing. For more information on the month-end closing procedures, refer to Period-End Closing - Plant (BEI) test script.  Note Month-end closing can only be executed once a month. |
| Close Confirmed Production/Process Orders (Optional) | Search for Schedule Order Closing Runs - Close Production/Process Orders (F4305) app as a Production Supervisor - Discrete Manufacturing to schedule a job to set orders as Closed (CLSD). |

## Document Integration

You can create fixed links between orders and documents in the Document Management System (DMS). This ensures that the correct document versions are supplied during the production process. In addition, this also allows you to keep track of which documents were used to produce a certain order.

Only documents of type SPP can be assigned to the production order. Documents are defined in the Manage Documents app or the Create Document app.

Display Outputs of the Order

A menu option is available to display the print files of the order. Choose More > Order > Output > Manage Output Items . A list of all available outputs are displayed.

If a business document contains attachments, you can include all or some of these in the output. For every output item, you can see the number of selected attachments and the number of available attachments.

To add attachments to an output item, select these numbers to display a list of all the available attachments. Once you save your changes, the numbers are updated. You can merge PDF attachments along with the rendered form into a single PDF document, if the print queue format is PDF.

Typographic Conventions

|  |  |
| --- | --- |
| Type Style | Description |
| Example | Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Textual cross-references to other documents. |
| Example | Emphasized words or expressions. |
| EXAMPLE | Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE. |
| Example | Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools. |
| Example | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation. |
| <Example> | Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system. |
| EXAMPLE | Keys on the keyboard, for example, F2 or ENTER. |

|  |
| --- |
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