|  |  |
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|  |  |
| Test Script  SAP S/4HANA - 16-09-20 | public |
| Make-to-Stock - Process Manufacturing Based on Production Order (2UG\_DE) |

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# Purpose

This scope item enables production planning in make-to-stock scenarios and quick reactions to incoming sales orders. The focus is on process manufacturing (supported through production orders).

The process starts with the creation of a demand forecast for semifinished goods represented by planned independent requirements (PIRs). Based on PIRs, Material Requirements Planning (MRP) creates a production plan for semifinished goods and explodes the entire bill of material structure. As a result, raw material demand is planned.

Production planners can analyze and change the planned-order-based production plan manually.

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

The production process itself is entirely covered via conversion of planned into production orders, order release, direct material issue or backflush, confirmation of operations and goods receipt posting. Order-based target and actual costs are created, ensuring 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 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 |  |
| Warehouse Clerk | SAP\_BR\_WAREHOUSE\_CLERK | Inventory Processing | SAP\_BR\_WAREHOUSE\_CLERK |  |
| Production Engineer - Discrete Manufacturing | SAP\_BR\_PRODN\_ENG\_DISC | Production Engineering - Discrete Manufacturing | SAP\_BR\_PRODN\_ENG\_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.

|  |  |  |  |
| --- | --- | --- | --- |
| Master | Value | Details | Comments |
| Material | SGPI001-V00 | MTS processing for process industry, batch managed | Unit of measures is kg. |
| Material | RMPI001 | Raw material, backflush | Input 1 (Water) |
| Material | RMPI002 | Raw material, batch managed | Input 2 (Agent 2) |
| Material | RMPI003 | Raw material, batch managed | Input 3 (Agent 3) |
| Material | RMPI004 | Raw material, batch managed | Input 4 (Agent 4) |
| Material | RMPI005 | Raw material, batch managed | Input 5 (Blue Color) |
| Plant | 1010 | Plant 1 DE |  |
| Storage Location | 101B | Std. storage location for production |  |

Bill of Material Structure

This overview shows the bill of material structure and the usage of each component.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Material | Level | Material Type | Unit | Base Quantity |
| SGPI001-V00 | 0 | HALB | KG | 100 |
| RMPI001 | 1 | ROH | KG | 86 |
| RMPI002 | 1 | ROH | KG | 2 |
| RMPI003 | 1 | ROH | KG | 3 |
| RMPI004 | 1 | ROH | KG | 4 |
| RMPI005 | 1 | ROH | G | 5000 |

For more information on creating these 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 | Master Data Script Text |
| BNR | Create Product Master of Type "Raw Material" |
| BNS | Create Product Master of Type "Semi-Finished Good" |
| BNJ | Create Production Work Center |
| BNK | Create Material BOM for Production and Sales |
| BNL | Create Routing |
| BLD | Create Production Version |

If Product Lifecycle Management Process Industry Sample Master Data has been activated in your system, you can use the following sample data to go through the test procedure. (Optional)

|  |  |  |  |
| --- | --- | --- | --- |
| Master | Value | Details | Comments |
| Material | SGPI001 | OUTPUT1 | Use material SGPI001 where material SGPI001-V00 is mentioned in the test script steps. |
| Material | RMPI001 | Raw material, backflush |  |
| Material | RMPI002 | Raw material, batch managed |  |
| Material | RMPI003 | Raw material, batch managed |  |
| Material | RMPI004 | Raw material, batch managed |  |
| Material | RMPI005 | Raw material, batch managed |  |
| Plant | 1010 | Plant 1 DE |  |
| Storage Location | 101B | Std. storage location for production |  |

## Business Conditions

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

|  |  |
| --- | --- |
| Scope Item ID | Business Condition |
| BEG – Standard Cost Calculation | You have completed the step described in the Test Script Standard Cost Calculation (BEG). |
| 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. |
| 1QG – Recipe Handover to Production - Bill of Material (Optional) | If you are going to execute 2UG with Product Lifecycle Management Process Industry Sample Master Data, you must have completed the step described in the Recipe Handover to Production - Bill of Material (1QG) to synchronize the recipe into a Bill of Material. This Bill of Material can be used in this test script to create a production version as described in Preliminary Steps. |

## Preliminary Steps

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

Purpose

If you want to execute this test script as a succeeding process after completing activities in test script Recipe Handover to Production - Bill of Material (1QG), and want to use the Manufacturing BOM created in 1QG, you should create a Production Version for Master Data used in 1QG. Otherwise, you should skip this step.

#### Assign Routing for SGPI001

Purpose

In case you are going to test this scope item with material SGPI001, you need to execute this step. In this process step, you assign routing for this material.

This step has to be executed only once for material SGPI001.

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 App | Open Change Routing (CA02). | The Change Routing: Initial Screen displays. |  |
| 3 | Enter data on the initial screen | On the Change Routing: Initial Screen, make the following entries, and choose Continue.  Plant:: 1010  Group: 41010062 | The Change Routing: Header Details screen displays. |  |
| 4 | Enter data on the header details screen | In the menu bar, choose More > Routing > Assignment .  Add the following entry in dialog box.  GrC: 1  Material: SGPI001  Plant: 1010  Choose Continue. | The Material Assignment screen displays. |  |
| 5 | Save the routing | Choose Save. | The routing is created. |  |

#### Create Production Version for SGPI001

Purpose

In case you are going to test this scope item with material SGPI001, you need to execute this step. A production version determines which alternative BOM is used with a routing to produce a material. In this process step, you create a production version for a material. This step has to be executed only once for material SGPI001.

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 App | Open Manage Production Versions (F2568) app. | 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: SGPI001 |  |  |
| 4 | Create A Production Version | Choose Create Production Version. | 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: SGPI001  Production Version: Select a production version that doesn't exist already, For Example: 001  Short Text for Production Version: PLMPI\_OUTPUT\_1  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 dialogue box, choose C: Search using material. 2. Make the following entries:   Material: SGP001  Plant: 1010   1. Choose Find. 2. Select one item you created before. 3. Choose the Copy (Enter) icon. | The values in Task List Type, Group and Group Counter are populated. |  |
| 7 | Enter Bill of Material Details | In the Bill of Material section, in the Alternative BOM field, use value help as follows:   1. In the Alternative BOM 1 Entry dialog box, select one entry which is created in 1QG. 2. Choose the Copy (Enter) icon. |  |  |
| 8 | Check the 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 | Verify the following in the consistency check log of production versions:   * Task list exists * BOM exists * No error messages exist | No error messages exist. |  |
| 10 | Save the 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 Production Version | On the Production Version: Mass Processing screen, choose Save. | The system saves the production version. |  |

### Create Raw Material Stock

Purpose

In a real business case, the materials are usually purchased from external suppliers in that case, process is covered by the standard purchasing or subcontracting processes. This process step shows you how to post initial stock directly to the Issue Storage Location.

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). | Screen name adapts according to entries. |  |
| 3 | Choose Goods Receipt - Other | Make the following entries and choose Enter:   * Action: Goods Receipt * Reference: Other * Movement Type: 561 | Screen name after entries are made. |  |
| 4 | Specify Material | On the Material tab, make the following entries:  Material: RMPI001 | Ensure that detail data is expanded. |  |
| 5 | Specify Quantity | On the Quantity tab, make the following entries:  Qty in Unit of Entry: For example, 1000 |  |  |
| 6 | Specify Plant and Storage Location | On the Where tab, make the following entries:   * Plant: 1010 * Storage location: 101B |  |  |
| 7 | Check Item | Press Enter, and ensure Item OK is selected. |  |  |
| 8 | Add Other Materials | Choose Next Item, then repeat the steps 4 to 7 for the following materials:   * Material: RMPI002 * Material: RMPI003 * Material: RMPI004 * Material: RMPI005 |  |  |
| 9 | Post Goods Movement | Choose Post. | Material document XXX is posted.  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 | App/Transaction | Expected Results |
| [Create Planned Independent Requirements](#unique_12) [page ] 14 | Production Planner | Manage PIRs (Obsolete) - Replaced by “Maintain PIRs” (F1079) | The Manage PIRs (Obsolete) - Replaced by “Maintain PIRs” (F1079) screen displays. |
| [Material Requirements Planning](#unique_13) [page ] 16 | Production Planner | Schedule MRP Runs (F1339) | The Application Jobs screen displays. |
| [Evaluate the Stock / Requirements Situation](#unique_14) [page ] 17 | Production Planner | Monitor Material Coverage - Net / Individual Segments (F2101) | The Monitor Material Coverage - Net / Individual Segments (F2101) screen displays. |
| [Create Production Order](#unique_15) [page ] 20 | Production Planner | Convert Planned Orders - to Production Orders (CO41) | The Collective Conversion of Planned Orders: Initial screen displays. |
| [Review Production Order](#unique_16) [page ] 21 | Production Supervisor - Discrete Manufacturing | Display Production Order (CO03) | The Production Order Display: Initial Screen displays. |
| [Goods Issue via Pick List](#unique_17) [page ] 23 | Production Operator - Discrete Manufacturing | Pick Components for Production Orders (CO27) | The Picking List: Initial Screen displays. |
| [Manual Goods Issue (Instead of Picking List)](#unique_18) [page ] 24 | Warehouse Clerk | Post Goods Movement (MIGO) | The Post Goods Movement (MIGO) screen displays. |
| [Monitor Order Progress](#unique_19) [page ] 26 | Production Supervisor - Discrete Manufacturing | Manage Production Orders (F2336) | The Manage Production Orders (F2336) screen displays |
| [Post Goods Receipt for Order](#unique_20) [page ] 27 | Warehouse Clerk | Post Goods Receipt for Production Order (F3110) | The Post Goods Receipt for Production Order (F3110) screen displays. |
| [Confirm Production incl. Component Backflush](#unique_21) [page ] 28 | Production Operator - Discrete Manufacturing | Confirm Production Operation (F3069) | The Enter Order and Operation screen displays. |
| [Review Production Order Confirmation](#unique_22) [page ] 30 | Production Supervisor - Discrete Manufacturing | Manage Production Operations (F2335) | The Manage Production Operations (F2335) screen displays. |
| [Review Scrap Report](#unique_23) [page ] 32 | Production Supervisor - Discrete Manufacturing | Material Scrap (F2035) | The Material Scrap (F2035) screen displays. |

# 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 use planned independent requirements (PIR) 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, that is, one planned quantity split over time according to dates.

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). |  |  |
| 3 | Check Default Area of Responsibility | On the Maintain PIRs (F3445) screen, choose your user name and App Settings icon. On the MRP Settings screen, choose Area of Responsibility.  Check if only the following entry assigned:  Plant 1 DE / 001 (MRP Controller 001).  Choose AOR status button of this entry if not assigned, choose AOR status button of the corresponding entry to unassign any other entry then choose Back. |  |  |
| 4 | Select | On the Maintain PIRs (F3445) screen, make the following entries:   * Plant: 1010 * Period Indicator: Weekly (W) * Version Active: Yes, No * Search: SGPI001-V00 |  |  |
| 5 | Filter Result | Choose Go to execute. | Material item displays. |  |
| 6 | Select Material Item | Check the material item, and choose Edit on the upper right part of the screen. |  |  |
| 7 | Edit PIRs | On the screen, enter quantities per period, for example:   * PIR: 100 * Version is Active: YES |  |  |
| 8 | Save PIRs Draft | Choose Save at the bottom right. | The PIRs are saved. |  |

### Material Requirements Planning

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 requirements planning to tailor available capacities and receipts on time to suit requirement quantities. You can use MRP or consumption-based planning for this purpose. Single-item multilevel requirement planning is carried out for plant 1010.

Prerequisite

The product for PI (SGPI001-V00) is planned at plant level. There is now a requirement for the material 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 SGPI001-V00>   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 SGPI001-V00 * 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 SGPI001-V00 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 the 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 monitor the material coverage situation for the material (SGPI001-V00) after the requirements planning has been carried out.

Prerequisite

Requirements planning has been 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 Manage Material Coverage screen displays. |  |
| 3 | Select Material | Mark the checkbox of the following materials, and then choose Manage Materials.   * Material: SGPI001-V00 * Material: RMPI001 * Material: RMPI002 * Material: RMPI003 * Material : RMPI004 * Material: RMPI005 |  |  |
| 4 | Review Stock / Requirement List | Select the corresponding material on the left Materials screen. | The detailed Stock / Requirements List for each material displays. |  |
| 5 | Display Planned Order | On the left Materials screen, select the following materials for which you want to check the planned order:  Material: SGPI001-V00  On the right Material Details screen, choose PldOrd XXXX in the MRP Element column. | The Planned Order selected displays in the dialog box.  If there is no shortage for those materials, the planned order will not be generated.  If you want to display more information about the planned order, choose Open… > Planned Order at the bottom right section of this dialog box. |  |
| 6 | Rescheduling Check (Optional) | In the Stock/Requirements List, the Rescheduling column displays the rescheduling status of the following MRP Elements.   * PurReq * Purchase Orders * Planned Orders * Production Orders * Process Orders   If necessary actions can be performed, below Icons in the Rescheduling column are displayed via pushing buttons. Push the buttons and corresponding actions perform directly.   * 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 | Corresponding actions perform. |  |

## Production Order Processing

### Create 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 create production orders. Because the order release is executed automatically, production can start immediately.

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 Convert Planned Orders (F4171). Then choose the action button: Collective Conversion to Production orders. | The Collective Conversion of Planned Orders: Initial screen displays. |  |
| 3 | Enter Restriction | Make the following entries and choose Run Selection:   * Planning Plant: 1010 * Production Plant: 1010 * Prodn. Supervisor: YB5 * Order Type: YBM5 | The system displays a list of all planned orders, which match the restriction. |  |
| 4 | Convert Planned Order to Production Order | Select the planned order for conversion for following material, and then choose Convert.  Material: SGPI001-V00 | Planned orders are converted to production orders. Make a note of the production order numbers.  Note It is possible to change order quantities (such as merging the quantities of 2 planned orders into one order. You may then delete the obsolete planned orders from the selection list before executing order conversion. Run MRP to delete the obsolete planned orders from the database (the planned orders must not be firmed, otherwise MRP would leave them untouched). |  |

### 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 review the created production orders.

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 Display Production Order (CO03). | The Production Order Display: Initial Screen displays. |  |
| 3 | Enter Production Order Number | Make the following entries and choose Continue:  Production Order: XXXX (From previous steps) | The Production order Display: Header screen displays.  On this screen, you find the order’s detailed information.  Production orders are reviewed and checked within your responsibility area. |  |

### Goods Issue of Batch-Managed Components

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. |

Context

The withdrawal of the raw materials is used for the order. This withdrawal can be done by using the picking list or doing a manual goods issue.

Note If the material is set for backflush (in material master or resource), the withdrawing is done automatically after you confirm the operation or the whole order. Backflushing should not be used for batch-managed components (to ensure that the physically picked and consumed batch is the same as the recorded batch).

Prerequisites

Ensure that sufficient material is present on stock. You can check the stock levels using the app Monitor Stock/Requirements List available for the Production Planner role.

#### Goods Issue via Pick List

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 released production order is now ready for picking. This process step shows you how to issue all materials that are moved to the production storage location to order with the pick list.

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 Restriction and Execute | Make the following entries and choose Execute:   * Profile: 000002 * Production Order: XXXX (from previous steps) * Plant : 1010 | The Order Information System: Detail List of Components screen displays. |  |
| 4 | Picking Raw Materials | Select the relevant reservations and choose Picking on the upper left. | The Picking list screen displays. On this screen, a list of all the selected reservations displays. |  |
| 5 | Batch Determination | Some materials are management by batch, for example: RMPI002, select corresponding line item and choose Batch Determination. | The Batch Determination MM: Select Batches screen displays. |  |
| 6 | Enter Detail | Make the following entries and choose Copy.  Split quantity: Quantity. | Go back to the Picking list screen. |  |
| 7 | Post | Choose Post to post the goods movements. | The goods movements have been posted. |  |

#### Manual Goods Issue (Instead of Picking List)

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 the system performs a goods issue.

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 Initial screen displays. |  |
| 3 | Enter Production Order Number | Make the following entries and choose Enter:   * Action: Goods Issue * Reference: Order * Order number: XXXX (from previous steps) * Movement Type: 261 | The screen name adapts after entries are made. |  |
| 4 | Check Each Item | For each item shown, select Item OK. | Ensure that detail data is expanded. |  |
| 5 | Perform Batch Determination | Choose Stock Determ. for All. | The Batch Determination MM: Select Batches screen displays. |  |
| 6 | Copy Batch Determination Result | Check the required batch and choose Copy. Repeat this step for all the materials you selected. | The Goods Issue Order XXXX screen displays. In addition, the batch numbers have been determined. |  |
| 7 | Post Goods Movements | Choose Post. | The goods movements have been posted. |  |

### Monitor Order Progress

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 generate a worklist for production orders, components and operations, with user-specific selection and layout settings.

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 Orders (F2336) screen displays. |  |
| 3 | Check Default Area of Responsibility (Supervisor) | On the Manage Production Orders (F2336) screen, make the following entries.  Select the user (in the top left corner). Choose App settings. Choose against Area of Responsibility Production Supervisor.  Check if only this entry displays:  Plant 1 DE (1010)  MTS DI - Valuated - Process (YB5) | If the Plant 1 DE (1010) is blank on the Area of Responsibility (Supervisor) screen, choose Add to select it and then choose OK.  For other plant entries on the Area of Responsibility (Supervisor) screen, choose Delete to remove the others and then choose OK. |  |
| 4 | Select Production Order | On the Manage Production Orders (F2336) screen, enter the following search condition as filter and choose Go.   * Material: SGPI001-V00 * Plant: 1010   Choose Adapt Filters to display more selection filter if needed. | Selected order displays. |  |
| 5 | Check Detailed Order Information | Check detailed information for selected production orders. |  |  |

### Post Goods Receipt for 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 the production order. You may post goods receipt for the total quantity, but usually already partial quantities of the products are required for further processing, such as consumption for further production or subsequent deliveries for sales orders.

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 Receipt for Production Order (F3110). | The Post Goods Receipt for Production Order (F3110) screen displays. |  |
| 3 | Enter Details | On the Post Goods Receipt for Production Order (F3110) screen, make the following entries and choose Enter:  Order: XXXX (from previous steps) | Pre-settings might be changed by other processes. Check if the value in the Action field is Goods Receipt and the value in the Reference field should be Order. If not, maintain the same. |  |
| 4 | Select the Item | In the Items section, select the item. | The Item Details screen displays. |  |
| 5 | Input Production Date | In the Production and Shelf Life Expiration Date section, make the following entries and choose Apply:  Production Date: <Current Date> | The Goods Receipt screen displays. |  |
| 6 | Post | Choose Post. | Goods receipt for production order has been done. |  |

### Confirm Production incl. Component Backflush

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

In the process industry, GR and GI postings are usually done immediately during the physical movements of the materials to ensure batch traceability and data consistency. Order confirmations with backflush are done at shift end or day end. The sum of the GI and GR quantity for the given order is then recorded within the confirmation and scrap quantities (optional). The time ticket confirmation allows recording either the default times for machine and labor usage, or record actual times for major deviations.

Prerequisite

The goods receipt posting for the order product (SGPI001-V00) has been done in a previous step and the total quantity was recorded.

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 Operation (F3069). | The Enter Order and Operation screen displays. |  |
| 3 | Enter Order Number and Operation | On the Enter Order and Operation screen, make the following entries, and choose Go:   * Order: XXXX (from previous steps) * Operation: 0010 | The Confirm Production Operation (F3069) screen displays. |  |
| 4 | Enter Fields in Quantities Section | In the Quantities section, make the following entries:   * Yield: <enter the amount you want to Confirm> * Scrap: <enter the amount you want to Scrap> |  |  |
| 5 | Check Material Movements | In the Material Movements section, check the material list. | 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 RMPI001 is set for backflush (in material master) so that the withdrawing is done automatically after you confirm the operation. |  |
| 6 | Enter Fields in Activities Section | In the Activities section, make the following entries:   * Machine: <enter the setup time you want to confirm for this operation> * Labor: <enter the setup time you want to confirm for this operation> |  |  |
| 7 | Save your Entries | Choose Post and Complete to make final confirmation for this operation. | Confirmation has been created. |  |
| 8 | Repeat Steps | Go back and repeat steps 3 to 7 for operation number 0020 and 0030. |  |  |

### Review Production Order Confirmation

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 confirmations for the orders.

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 (F2335) screen displays. |  |
| 3 | Check Default Area of Responsibility (Supervisor) | On the Manage Production Operations (F2335) screen, make the following entries.  Select the user (from the top left corner). Choose App settings. Choose against Area of Responsibility Production Supervisor.  Check if only this entry displays:  Plant 1 DE (1010)  MTS DI - Valuated - Process (YB5) | If the Plant 1 DE (1010) is blank on the Area of Responsibility (Supervisor) screen, choose add to select it and then choose OK.  For other plant entries on the Area of Responsibility (Supervisor) screen, choose Delete to remove the others and then choose OK. |  |
| 4 | Enter Search Condition | On the Manage Production Operations (F2335) screen, enter the following search condition as filter and choose Go.   * Material: SGPI001-V00 * Plant: 1010   Choose Adapt Filters to display more selection filter if needed. | Selected operation displays. |  |
| 5 | Check Detailed Operation Status | Check detailed information for selected production operations. | Detailed operations status displays. |  |

### 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 confirmations for the orders.

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 (F2035) screen displays. |  |
| 3 | Investigate Scrap | Materials Scrap can display by various filters.  You could choose the corresponding material in Chart to display the details. |  |  |

# Appendix

## Process Integration

### Succeeding Processes

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

|  |  |
| --- | --- |
| Process | Business Condition |
| BEI – Period-End Closing - Plant | These are executed collectively as a part of month-end closing. For more information on the month-end closing procedure, see the Period-End Closing - Plant (BEI) Test Script.  Note that month-end closing can only be executed once a month. |

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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