|  |  |
| --- | --- |
|  |  |
| Test Script  SAP S/4HANA - 15-09-20 | public |
| Make-to-Stock - Process Manufacturing Based on Process Order (BJ8\_DE) |

Table of Contents

[1 Purpose 3](#_Toc51258029)

[2 Prerequisites 4](#_Toc51258030)

[2.1 System Access 4](#_Toc51258031)

[2.2 Roles 4](#_Toc51258032)

[2.3 Master Data, Organizational Data, and Other Data 5](#_Toc51258033)

[2.4 Business Conditions 6](#_Toc51258034)

[2.5 Preliminary Steps 7](#_Toc51258035)

[2.5.1 Initial Raw Material Stock 7](#_Toc51258036)

[3 Overview Table 9](#_Toc51258037)

[4 Test Procedures 11](#_Toc51258038)

[4.1 Anonymous Forecast and MRP 11](#_Toc51258039)

[4.1.1 Create Planned Independent Requirements 11](#_Toc51258040)

[4.1.2 Material Requirements Planning 13](#_Toc51258041)

[4.1.3 Evaluate the Stock / Requirement Situation 15](#_Toc51258042)

[4.2 Process Order Processing 17](#_Toc51258043)

[4.2.1 Create Process Order 17](#_Toc51258044)

[4.2.2 Review Process Order 19](#_Toc51258045)

[4.2.3 Goods Issue of Batch-Managed Components 21](#_Toc51258046)

[4.2.3.1 Goods Issue via Pick List 21](#_Toc51258047)

[4.2.3.2 Manual Goods Issue (instead of Picking List) 23](#_Toc51258048)

[4.2.4 Monitor Order Progress 24](#_Toc51258049)

[4.2.5 Confirm Production incl. Component Backflush 26](#_Toc51258050)

[4.2.6 Post Goods Receipt for Process Order 28](#_Toc51258051)

[4.2.7 Review Process Order Confirmation 29](#_Toc51258052)

[4.3 Review Scrap Report 31](#_Toc51258053)

[4.4 Review Manufacturing Object Pages 32](#_Toc51258054)

[5 Appendix 34](#_Toc51258055)

[5.1 Succeeding Processes 34](#_Toc51258056)

# 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 (for example, supported through process orders or batch management).

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, semifinished components, and raw materials. 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 process 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 - Process Manufacturing | SAP\_BR\_PRODN\_SUPERVISOR\_PROC | Process Manufacturing Execution Management | SAP\_BR\_PRODN\_SUPERVISOR\_PROC |  |
| Production Operator - Process Manufacturing | SAP\_BR\_PRODN\_OPTR\_PROC | Process Manufacturing Execution | SAP\_BR\_PRODN\_OPTR\_PROC |  |
| Warehouse Clerk | SAP\_BR\_WAREHOUSE\_CLERK | Inventory Processing | SAP\_BR\_WAREHOUSE\_CLERK |  |

## 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:

Manufacturing / Trading

|  |  |  |  |
| --- | --- | --- | --- |
| Data | Sample Value | Details | Comments |
| Material | FG29 |  | MTS processing for process industry with batch processing |
| Material | SG24 |  | Semifinished Product PI, batch managed |
| Material | RM15 |  | Packaging material, no batch, external procured |
| Material | RM09 |  | Raw material, batch-managed, external procured |
| Material | RM19 |  | Raw material, batch-managed, external procured |
| Material | RM30 |  | Raw material, batch-managed, external procured |
| Plant | 1010 |  | Plant 1 DE |
| Storage Location | 101A |  | Std. storage for finished products |
| Storage Location | 101B |  | Std. storage for production Less |
| Storage Location | 101C |  | Raw material storage location |

Bill of Materials Structure

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Material | Level | Material Type | Unit | Characteristic of material |
| FG29 | 0 | FERT | BT | MTS processing for process industry with batch processing |
| RM15 | 1 | ROH | PC | Packaging material, no batch, external procured |
| SG24 | 1 | HALB | CCM | Semifinished Product PI, batch managed |
| RM09 | 2 | ROH | KG | Raw material, batch-managed, external procured |
| RM19 | 2 | ROH | L | Raw material, batch-managed, external procured |
| RM30 | 2 | ROH | L | Raw material, batch-managed, external procured |

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)

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" |
| BNK | Create Material BOM for Production and Sales |
| 3X8 | Create Resource |
| 3X9 | Create Master Recipe |
| BLD | Create Production Version |

## Business Conditions

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

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| BEG - Standard Cost Calculation | You have completed the steps described in the test script. |
| BNZ - Create New Open MM Posting Period | You have completed the step described in the master data script. Posting Period is up to date. |

## Preliminary Steps

### Initial Raw Material Stock

Purpose

In a real business case, the raw materials are usually purchased from external vendors that can be covered by the standard purchasing processing. This process step shows you how to directly post initial stock to the storage location.

Note You can either post initial stock directly to the storage location or referring to the process of Procurement of Direct Materials (J45) or Scheduling Agreements in Procurement (BMR)

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 accordingly. |  |
| 3 | Choose Goods Receipt-Other | Make the following entries and choose Enter:   * Action: Goods Receipt * Reference: Other * Movement Type: 561 | Screen name adapts after entries are made. |  |
| 4 | Specify Material | On the Material tab, make the following entries:  Material: RM15 | Ensure that detail data is expanded. |  |
| 5 | Specify Quantity | On the Quantity tab, make the following entries:  Qty in Unit of Entry: 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: RM09 * Material: RM19 * Material: RM30 |  |  |
| 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 | Transaction/App | Expected Results |
| [Create Planned Independent Requirements](#unique_9) [page ] 11 | Production Planner | Maintain PIRs (F3445) | The Manage PIRs screen displays. |
| [Material Requirements Planning](#unique_10) [page ] 13 | Production Planner | Schedule MRP Runs (F1339) | The Application Jobs screen displays. |
| [Evaluate the Stock / Requirement Situation](#unique_11) [page ] 15 | Production Planner | Monitor Material Coverage (F2101) | The Monitor Material Coverage screen displays. |
| [Create Process Order](#unique_12) [page ] 17 | Production Planner | Convert Planned Orders - to Process Orders (COR8) | The Collective Conversion of Planned Orders: Initial screen displays. |
| [Review Process Order](#unique_13) [page ] 19 | Production Supervisor - Discrete Manufacturing | Display Process Order (COR3) | The Display Process Order: Initial screen displays. |
| [Goods Issue via Pick List](#unique_14) [page ] 21 | Production Operator - Process Manufacturing | Pick Components for Process Orders (COIK) | The Picking List: Initial screen displays |
| [Manual Goods Issue (instead of Picking List)](#unique_15) [page ] 23 | Warehouse Clerk | Post Goods Movement (MIGO) | The initial screen displays. |
| [Monitor Order Progress](#unique_16) [page ] 24 | Production Supervisor - Process Manufacturing | Monitor Order Progress (CO46) | The Order Progress Report: Selection screen displays. |
| [Confirm Production incl. Component Backflush](#unique_17) [page ] 26 | Production Operator - Process Manufacturing | Confirm Process Order Phase (COR6N) | The Enter Time Ticket for Process Order screen displays. |
| [Post Goods Receipt for Process Order](#unique_18) [page ] 28 | Warehouse Clerk | Post Goods Movement (MIGO) | The Initial screen displays. |
| [Review Process Order Confirmation](#unique_19) [page ] 29 | Production Supervisor - Process Manufacturing | Display Process Order Confirmation (CORT) | The Display Process Order Confirmation: Initial screen displays. |
| [Review Scrap Report](#unique_20) [page ] 31 | Production Supervisor - Process Manufacturing | Material Scrap (F2035) - Maximum Deviation | The Material Scrap screen displays. |
| [Review Manufacturing Object Pages](#unique_21) [page ] 32 | Any role for production listed in chapter Roles | Search function | The list of search result 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

Planned independent requirements (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, that is, one planned quantity split over time according to dates. This process step shows you how to create PIRs.

Note Instead of creating single requirement, sometimes a requirements plan that includes one or more planned independent requirements can be maintained 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) |  |  |
| 3 | Check Default Area of Responsibility | On the Maintain PIRs (F3445) screen, choose your user name and the 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 if the status for the above entry is not yet assigned. Choose AOR Status to unassign the rest of other entries. |  |  |
| 4 | Select | On the Maintain PIRs (F3445) screen, make the following entries:   * Plant: 1010 * Period Indicator: Weekly (W) * Version Active: Yes, No * Search: FG29. |  |  |
| 5 | Filter Result | Choose Go to execute . | The material item displays. |  |
| 6 | Select Material Item | Check the material item, and choose Edit in 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 bottom right of the screen. | 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

The aim of material requirements planning is to tailor available capacities and receipts on time to suit requirement quantities. This process step shows you how to use MRP or consumption-based planning. Single-item multilevel requirement planning is carried out for plant 1010.

Prerequisite

The finished product for PI (FG29) is planned at plant level. There is now a requirement for the material finished product PI (FG29) 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 FG29>   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: FG29 * 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 FG29 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 / Requirement 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 finished product PI (FG29) 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 Monitor Material Coverage - Net / Individual Segments (F2101) screen displays. |  |
| 3 | Select Material | Select the checkbox of the following materials, and then choose Manage Materials.   * Material: FG29 * Material: SG24 * Material: RM15 * Material: RM09 * Material: RM19 * Material: RM30 | The Manage Material Coverage screen displays. |  |
| 4 | Review Stock / Requirements List | Select the corresponding material on the left Materials screen. | The detailed Stock / Requirements List for each material displays.  For RM30, no requirements are created because this material is set as bulk material. |  |
| 5 | Display Planned Order | On the Materials screen on your left, select one of the following materials for which you want to check the planned order:   * Material: FG29 * Material: SG24   On the right Material Details screen, choose the PldOrd XXXX in the MRP Element column. | The Planned Order selected display in the dialog box.  If there is no shortage for those materials, the planned order won't 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 | Display Purchase Requisition | On the Materials screen on your left, select one of the following materials for which you want to check the purchase requisition:   * Material: RM15 * Material: RM09 * Material: RM19 * Material: RM30   On the Material Details screen, choose PurRqs XXXX in the MRP Element column. | The Purchase Requisition you chosen will display in the dialog box.  If there is no shortage for those materials, the purchase requisition won't be generated.  Note The BOM explosion during the MRP run has generated dependent requirements for the demand-driven planned components. Dependent requirements for the consumption-based components are generated by production orders (planned orders and process orders) at the time of reservation. Therefore MRP runs also generated dependent requirements for the components. If inventory doesn't cover the requirements, planned orders are created for in-house-produced materials and purchase requisitions for externally procured materials. To continue processing of externally procured materials, execute Procurement of Direct Materials (J45) or Scheduling Agreements in Procurement (BMR) test script depending on the element created in MRP run. |  |

## Process Order Processing

Note In this test script, the production process has to be executed at first for the semifinished material (SG24) and afterwards for the finished product (FG29).

### Create Process 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 process 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 Monitor Material Coverage - Net / Individual Segments (F2101). |  |  |
| 3 | Check MRP Settings | Choose the user icon, and select MRP Settings, and then select 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 | Make the following entries and choose Go:   * Shortage Definition: MRP Standard * Material: <Material>   Select the checkbox of the material, and then choose Manage Materials. | Note First convert planned orders for semi-finished material (SG24) and proceed for the whole section Process Order Processing, and afterwards repeat for the finished product (FG29). |  |
| 5 | Choose Action Convert | For the planned order you want to convert, choose Convert under Actions. |  |  |
| 6 | Convert to Process Order | In the dialog box, Convert to Process Order is selected by default. Choose OK. | Planned orders are converted to process orders.  Make a note of the process order numbers. |  |

As an alternative, you can also use some other app to covert the planned order to process order. If you already converted it through above procedure, you do not need to execute below procedure again.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 Process orders. | The Collective Conversion of Planned Orders: Initial screen displays. |  |
| 3 | Enter Restriction | Make the following entries and choose Execute:   * Planning Plant: 1010 * Production Plant: 1010 * Prodn.Supervisor: YB2 * Process Order Type: YBM2 | The system displays a list of all planned orders, which match the restriction.  Note Convert first planned orders for the semi-finished material (SG24) and proceed for the whole section Succeeding Processes and afterwards repeat for the finished product (FG29). |  |
| 4 | Convert Planned Order to Process Order | Select the planned order for conversion, and then choose Convert Planned Order. | Planned orders are converted to process orders.  Make a note of the process order numbers. |  |

Note It is possible to change order quantities (such as merging the quantities of two planned orders into one process 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 Process 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 created process orders. It is possible to perform this step with different SAP Fiori apps. We provide 2 options you can leverage, and you can choose either one of them.

Procedure

Option 1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 - Process Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Display Process Order (COR3). | The Display Process Order: Initial screen displays. |  |
| 3 | Enter Process Order Number | Make the following entries and choose Enter.  Process Order: XXXX (From previous steps) | The Display Process Order: Header - General Data screen displays.  On this screen, you find the order’s detailed information.  Process orders are reviewed and checked within your responsibility area. |  |

Option 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 - Process Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Process Orders (F4587). |  |  |
| 3 | Select AOR | If this is your first time to access the app, a welcome page would appear asking you to select your area of responsibility.  Otherwise, choose your user name and the App Settings icon.  On the Area of Responsibility screen, choose Production Supervisor.  On the Area of Responsibility (Supervisor) screen, choose Production Supervisor.  Choose Add or Delete to add or remove entries, and make sure following entry displays:  Plant 1 DE/ MTS PI valuated (YB2) |  |  |

### Goods Issue of Batch-Managed Components

Purpose

The withdrawal of the raw materials is used for the process 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 process 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 the process order using 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 - Process Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Pick Components for Process Orders (COIK). | The Picking List: Initial screen displays. |  |
| 3 | Enter Restriction and Execute | Make the following entries and then choose Execute:   * Profile: 000002 * Process 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. | The Picking list screen displays. On this screen, a list of all the selected reservations displays. |  |
| 5 | Perform Batch Determination | Select the picking lines and choose Batch Determination. | The Batch Determination MM: Select Batches screen displays.  If the system shows the message Batch determination was carried out without selection specification , ignore it.  If only part of the required quantity is found to be available during batch determination, the unconfirmed quantity remains as an open line item within the picking list. You should then delete the line item from the picking list before saving, as this line item can't be posted. |  |
| 6 | Copy Batch Determination Result | Choose Copy. Repeat this step for all the materials you selected. | The Picking list screen displays again. In addition, the batch numbers have been determined. |  |
| 7 | Post Goods Movements | Choose Post. | The goods movements are 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 to perform 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 Process Order | Make the following entries and then 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 displays, 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 monitor process orders. It is possible to perform this step with different SAP Fiori apps. We provide 2 options you can leverage, and you can choose either one of them.

Procedure

Option 1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 - Process Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Manage Process Orders (F4587). |  |  |
| 3 | Select AOR | If this is your first time to access the app, a welcome page would appear asking you to select your area of responsibility.  Otherwise, choose your user name and the App Settings icon.  On the Area of Responsibility screen, choose Production Supervisor.  On the Area of Responsibility (Supervisor)screen, choose Production Supervisor.  Choose Add or Delete to add or remove entries, and make sure following entry displays:  Plant 1 DE/ MTS PI valuated (YB2) |  |  |

Option 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 - Process Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Monitor Order Progress (CO46). | The Order Progress Report: Selection screen displays. |  |
| 3 | Enter Overall Profile | Make the following entries and choose the Production/Process Order tab .  Overall Profile: SAP000000002 |  |  |
| 4 | Enter Process Order Number | Make the following entries and choose Execute.  Production/Process Order: XXXX (from previous steps) | The Stock/Requirements List as of XX hrs screen displays.  You can review the required lists, such as order header and components lists. |  |

### 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

The confirmation documents include the processing status of order, operations, phases and individual capacities. It is an instrument to control the order. The time ticket confirmation allows recording either the default times for machine and labour usage, or actual times for major deviations. Backflushed materials will be posted automatically during respective phase confirmations. This process step shows you how to confirm production. You can post scrap quantities as an optional. If no major deviations occurred, only the last phase (milestone) must be confirmed. Using milestone confirmation, all prior phases are confirmed automatically.

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 - Process Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Confirm Process Order Phase (COR6N). | The Enter Time Ticket for Process Order screen displays. |  |
| 3 | Enter Confirmation Option | Make the following entries and then choose Enter.  Order: XXXX (from previous steps)  Choose Enter or select phase (0040 for SG24 / 0020 for FG29) from search help of Phase field.   * Confirm.type: Final confirmation * Clear open reservations: X | If the system shows the message Total quantity confirmed not equal to planned quantity to be confirmed, press Enter to ignore it. |  |
| 4 | Propose Actual Data | Choose Actual Data.  Make the changes for the following fields:   * Scrap: <enter the amount you want to Scrap> * Yield: <Based on the origin quantities minus Scrap> * Reason for Var: < Enter scarp reason if need>, for example, 0001 | The Quantities and Activities will be filed automatically.  If you want to check your backflushed components (required for material FG29, continue with row 5 of this table. Else proceed directly with row 6. |  |
| 5 (optional step and only required for FG29 process orders) | Check Backflushed Components | Choose Goods Movements. | The Enter Confirmation for Production Order: Goods Movement screen displays. Check the material entries and quantities. The final confirmation of the last operation has been carried out. Backflushed components are issued with the confirmation posting automatically (packaging material RM15 within the confirmation of orders for Finished Product PI FG29). |  |
| 6 | Save Confirmation | Save your entries. | The final confirmation of the last operation is carried out. Costs and activity quantities are recalculated in proportion to the yield quantity. |  |

### Post Goods Receipt for Process 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

The purpose of this activity is to post the goods receipt for the process 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 Warehouse Clerk. | The SAP Fiori Launchpad displays. |  |
| 2 | Access the App | Open Post Goods Movement (MIGO). | The Initial screen displays. |  |
| 3 | Enter Process Order | Make the following entries and then choose Enter.  Action: Goods Receipt  Reference: Order  Order number: XXXX (From previous steps)  Movement Type: 101 | Screen name adapts after entries are made. |  |
| 4 | Enter Date of Manufacture | Choose the Batch tab, then make the following entries:  It is only needed for Material FG29. For Material SG24 the date can be entered but is not mandatory.  Date of Manufacture: Current Date | Note Please be informed that instruction of step 4 is only available for SAP delivered standard content As some customizing changes in SSCUI could make things different. |  |
| 5 | Check Item | Select item OK. | Ensure that detail data is expanded. |  |
| 6 | Post Goods Movement | Choose Post. | The goods movements are posted. The batch number is created automatically during the posting. Production date and shelf life expiration date are recorded within the batch master of the finished product. |  |

### Review Process 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 process orders. It is possible to perform this step with different SAP Fiori apps. We provide 2 options you can leverage, and you can choose either one of them.

Procedure

Option 1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 - Process Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Manage Process Orders (F4587) |  |  |
| 3 | Select AOR | If this is your first time to access the app, a welcome page would appear asking you to select your area of responsibility.  Otherwise, choose your user name and the App Settings icon.  On the Area of Responsibility screen, choose Production Supervisor.  On the Area of Responsibility (Supervisor)screen, choose Production Supervisor.  Choose Add or Delete to add or remove entries, and make sure following entry displays:  Plant 1 DE/ MTS PI valuated (YB2) |  |  |

Option 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 - Process Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Display Process Order Confirmation (CORT). | The Display Process Order Confirmation: Initial screen displays. |  |
| 3 | Enter Process Order | Make the following entries and then choose Enter.  Process Order: XXXX (from previous steps) | The Display Process Order Confirmation: Operation/Phase Overview screen displays.  Confirmations are reviewed and checked within your responsibility area. |  |

## 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 - Process 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 |
| BEI - Period-End Closing - Plant (Optional) | These activities are executed collectively as a part of month-end closing. For more information about the month-end closing procedure, see the Period-End Closing - Plant (BEI) test script.   * 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. |

|  |
| --- |
|  |
| www.sap.com/contactsap |
| © 2020 SAP SE or an SAP affiliate company. All rights reserved.  No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company. The information contained herein may be changed without prior notice.  Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.  These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.  SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.  See [www.sap.com/copyright](http://www.sap.com/copyright) for additional trademark information and notices. |

