|  |  |
| --- | --- |
|  |  |
| Test Script  SAP S/4HANA - 20-08-20 | public |
| Production Capacity Evaluation (31L\_DE) |

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# Purpose

This scope item enables quick capacity evaluation and planning for make-to-stock scenarios in Discrete and Process Manufacturing. You can determine the industry type selection and displayed data in the app settings.

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 demand is planned. All orders and operations that are planned with the MRP are allocated to the required capacities. Production planners can evaluate the capacity utilization for a defined time horizon and execute manual changes in orders to resolve upcoming bottleneck situations in the defined area of responsibility.

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 |  |
| Inventory Manager | SAP\_BR\_INVENTORY\_MANAGER | Inventory Management | SAP\_BR\_INVENTORY\_MANAGER |  |
| 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 |  |
| Production Engineer - Process Manufacturing | SAP\_BR\_PRODN\_ENG\_PROC | Production Engineering - Process Manufacturing | SAP\_BR\_PRODN\_ENG\_PROC |  |

## 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.

### Master Data for Discrete Manufacturing

This section describes sample Master Data for Discrete Manufacturing. Use your own master data or the following sample data to go through the test procedure.

|  |  |  |  |
| --- | --- | --- | --- |
| Master | Value | Details | Comments |
| Material | FG1\_CP | CP-FG1, Shaft with Rolling Bearings |  |
| Material | SG1\_CP | CP-SG1, Shaft |  |
| Material | RM1\_CP | CP-RM1, Steel |  |
| Material | RM2\_CP | CP-RM2, Rolling Bearing |  |
| Material | RM3\_CP | CP-RM3, Retaining Ring |  |
| Material | RM4\_CP | CP-RM4, Packaging Material |  |
| 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 |
| FG1\_CP | 0 | FERT | PC | Finished Good |
| SG1\_CP | 1 | SEMI | PC | Semi-finished Goods |
| RM1\_CP | 2 | RAW | PC | Raw material, component for SG1\_CP |
| RM2\_CP | 2 | RAW | PC | Raw material |
| RM3\_CP | 2 | RAW | PC | Raw material |
| RM4\_CP | 2 | RAW | PC | Raw material |

Work Center

This overview shows work centers used for this scenario.

|  |  |
| --- | --- |
| Work Center | Description |
| TURNING1 | CP-WC1, Turning 1 |
| TURNING2 | CP-WC2, Turning 2 |
| TURNING9 | CP-WC2 (Alt), Turning 9 |
| DRILING | CP-WC3, Drilling |
| FINICLN | CP-WC4, FINISHING AND CLEANING |
| ASSPKG | CP-WC5, ASSEMBLY AND PACKAGING |
| ASSPKG9 | CP-WC5 (Alt), ASSEMBLY AND PACKAGING 9 |

Routing

This overview shows Routing for Semi-finished goods and Finished goods.

|  |  |  |  |
| --- | --- | --- | --- |
| Material | Operation | Description | Work Center |
| SG1\_CP | 0010 | Turning Machine 1 | TURNING1 |
| SG1\_CP | 0020 | Turning Machine 2 | TURNING2 |
| SG1\_CP | 0030 | Drilling machine | DRILING |
| SG1\_CP | 0040 | Finishing | FINICLN |
| SG1\_CP | 0050 | Clearing | FINICLN |
| FG1\_CP | 0010 | Assembly | ASSPKG |
| FG1\_CP | 0020 | Finish and clean | FINICLN |

Available capacity for work center

This overview shows predefined shifts.

|  |  |  |  |
| --- | --- | --- | --- |
| Shift | Start time | End time | Length of break |
| YS1, Early Shift | 06:00:00 | 14:00:00 | 00:30:00 |
| YS2, Late Shift | 14:00:00 | 22:00:00 | 00:30:00 |
| YS3, Night Shift | 22:00:00 | 06:00:00 | 00:30:00 |

For more information about 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 |

### Master Data for Process Manufacturing

This section describes sample Master Data for Process Manufacturing. Use your own master data or the following sample data to go through the test procedure.

|  |  |  |  |
| --- | --- | --- | --- |
| Master | Value | Details | Comments |
| Material | FG2\_CP | CP-FG2, Ink Bottled, 15 ml |  |
| Material | SG2\_CP | CP-SG2, Ink Bottled |  |
| Material | RM5\_CP | CP-RM5, Varnish |  |
| Material | RM6\_CP | CP-RM6, Pigment |  |
| Material | RM7\_CP | CP-RM7, Label |  |
| Material | RM8\_CP | CP-RM8, Bottle |  |
| 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 |
| FG2\_CP | 0 | FERT | PC | Finished Good |
| SG2\_CP | 1 | SEMI | PC | Semi-finished Goods |
| RM5\_CP | 2 | RAW | PC | Raw material, component for SG2\_CP |
| RM6\_CP | 2 | RAW | PC | Raw material, component for SG2\_CP |
| RM8\_CP | 2 | RAW | PC | Raw material, component for SG2\_CP |
| RM7\_CP | 1 | RAW | PC | Raw material |

Resource

This overview shows sample Resources for Process Manufacturing.

|  |  |
| --- | --- |
| Resource | Description |
| MIX01\_CP | CP-RES01, Ink Mixing 01 |
| BOT01\_CP | CP-RES02, Bottling 01 |
| BOT02\_CP | CP-RES03, Bottling 02 (ALT) |
| PAC01\_CP | CP-RES04, Ink Packing 01 |
| PAC02\_CP | CP-RES05, Ink Packing 02 (ALT) |

Master Recipe

This overview shows Master Recipe for Semi-finished goods and Finished goods for Process Manufacturing.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Material | Operation | Phase | Description | Resource | Resource (alternative) |
| SG2\_CP | 0010 |  | Mixing Operation | MIX01\_CP |  |
|  | 0020 | X | Mixing Phase | MIX01\_CP |  |
|  | 0030 |  | Bottling Operation | BOT01\_CP | BOT02\_CP |
|  | 0040 | X | Bottling Phase 1 | BOT01\_CP | BOT02\_CP |
|  | 0050 | X | Bottling Phase 2 | BOT01\_CP | BOT02\_CP |
| FG2\_CP | 0010 |  | Packing Operation | PAC01\_CP | PAC02\_CP |
|  | 0020 | X | Packing Phase | PAC01\_CP | PAC02\_CP |

Available capacity for work center

This overview shows predefined shifts.

|  |  |  |  |
| --- | --- | --- | --- |
| Shift | Start time | End time | Length of break |
| YS1, Early Shift | 06:00:00 | 14:00:00 | 00:30:00 |
| YS2, Late Shift | 14:00:00 | 22:00:00 | 00:30:00 |
| YS3, Night Shift | 22:00:00 | 06:00:00 | 00:30:00 |

For more information about 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 2: 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 condition must be met.

|  |  |
| --- | --- |
| Scope Item | 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. |

## Preliminary Steps

### Preliminary Steps for Discrete Manufacturing

#### Create Initial 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 hoe to post initial stock directly to the storage locations for raw materials RM1\_CP, RM2\_CP, RM3\_CP and RM4\_CP.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as an Inventory Manager. | The SAP Fiori Launchpad displays. |  |
| 2 | Access the App | Open Manage Stock (F1062). |  |  |
| 3 | Input Material | Make the following entry and choose Enter:   * Material: <RM1\_CP> * Plant: Plant 1 DE (1010) |  |  |
| 4 | Select Stock | Select the icon beside the stock that you want to add initial stock:  Storage Location: Raw mat. sto. loc. (101C)  Unrestricted-Use Stock | The Manage Stock dialog box opens. The Storage Location, Stock Type and Current Quantity display according to your entries in previous steps. |  |
| 5 | Add Initial Stock | Make the following entries and choose Post:   * Stock Change: Initial Entry * Quantity: Enter a number, for example, 1000 * Document Date: <Today>   Posting Date: <Today> | The system displays Material document XXX created. The stock has been added. |  |

We recommend that you check the stock for SG1\_CP and FG1\_CP. To check, log on to the SAP Fiori launchpad as a Production Planner and open Check Material Coverage (F0251). If there is sufficient stock, remove some stock; otherwise, no plan orders are generated later. After removing some stock, run the test again.

You can either post initial stock directly to the storage location or refer to test scripts Procurement of Direct Materials (J45) or Scheduling Agreements in Procurement (BMR).

#### Check Available Capacity in Work Center

Purpose

In the Best Practice pre-delivered contents, standard available capacity is applied to the work centers, and no shifts assigned initially. In case these values have been adjusted during test, we recommend that you have a check to have better understanding of current available capacity for work center TURNING1, TURNING2, DRILING, FINICLN and ASSPKG.

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 the Change Work Center (CR02). |  |  |
| 3 | Enter Plant and Work Center | On the Change Work Center (CR02) screen, make the following entries, and choose Enter:   * Plant: 1010 * Work center: Work Center |  |  |
| 4 | Choose Capacity Category 001 | Choose Capacities tab, you can find there are two Capacity categories defined: 001 and 002.  Double-click Capacity category: 001 | The Change Work Center: Capacity Overview screen displays. |  |
| 5 | Check Standard Available Capacity | On the Change Work Center: Capacity Overview screen for capacity 001, check standard available capacity. Following values are pre-set in this test scenario:   * Start time: 07:00:00 * End time: 16:00:00 * Length of break: 01:00:00 * Capacity Utilization: 100 * No. Ind. Capacities: 1   For test purpose, we recommend using the same values as above. |  |  |
| 6 | Check Intervals and Shifts | Choose Intervals and Shifts in the upper left corner.  On the Change Work Center Capacity: Header screen for capacity 001, available shifts are listed in the table at the bottom of the page. We recommend deleting any additional shifts effective within next 6 weeks.  Choose any line you want to delete, then choose Delete line icon in the upper right.  Choose Back twice to screen Change Work Center Capacity: Header. |  |  |
| 7 | Choose Capacity Category 002 | Under Capacities tab, double-click Capacity category: 002. | The Change Work Center: Capacity Overview screen displays. |  |
| 8 | Check Default Settings for Capacity Category 002 | Repeat step #5 and #6 for category 002  . |  |  |
| 9 | Save | Choose Save. | Work center XXX in plant 1010 was changed. |  |

### Preliminary Steps for Process Manufacturing

#### Create Initial 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. For the purpose of this test, we post initial stock directly to the storage locations. This process step shows you how to post initial stock directly to the storage locations for raw materials RM5\_CP, RM6\_CP, RM7\_CP and RM8\_CP.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori Launchpad as an Inventory Manager. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Post Goods Movement (MIGO). |  |  |
| 3 | Choose Goods Receipt-Other | Make the following entry and choose Enter:   * Action: Goods Receipt * Reference: Other * Movement Type: 561 | Screen name adapts after entries are made. |  |
| 4 | Specify Material | In the Material tab, make the following entries:   * Material: <Material number> | Ensure that detail data is expanded. |  |
| 5 | Specify Quantity | In the Quantity tab, make the following entries:   * Qty in Unit of Entry: 1000 |  |  |
| 6 | Specify Plant and Storage Location | In 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 other materials: |  |  |
| 9 | Post Goods Movement | Choose Post. | Material document XXX is posted.  Materials are available in stock. |  |

We recommend that you check the stock for SG2\_CP and FG2\_CP. To check, log on to the SAP Fiori launchpad as a Production Planner and open Check Material Coverage (F0251). If there is sufficient stock, remove some stock; otherwise, no plan orders are generated later. After removing some stock, run the test again.

You can either post initial stock directly to the storage location or refer to the test scripts Procurement of Direct Materials (J45) or Scheduling Agreements in Procurement (BMR).

#### Check Available Capacity in Resource

Purpose

In the Best Practice pre-delivered contents, standard available capacity is applied to the resources, and no shifts assigned initially. In case these values have been adjusted during test, we recommend that you have a check to have better understanding of current available capacity for resources MIX01\_CP, BOT01\_CP, BOT02\_CP, PAC01\_CP and PAC02\_CP.

Procedure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 1 | Log On | Log on to the SAP Fiori launchpad as aProduction Engineer - Process Manufacturing. | The SAP Fiori launchpad displays. |  |
| 2 | Access the App | Open Change Resource (CRC2). |  |  |
| 3 | Enter Plant and Work Center | On the Change Resource: Initial screen, make the following entries, and choose Enter:   * Plant: 1010 * Resource: <resource> |  |  |
| 4 | Choose Capacity Category 001 | Choose Capacities tab, you can find there are two Capacity categories defined: 001 and 002.  Double-click Capacity category: 001 | The Change Work Center: Capacity Overview screen displays. |  |
| 5 | Check Standard Available Capacity | On the Change Resource Capacity Overview screen for capacity 001, check standard available capacity. Following values are pre-set in this test scenario:   * Start time: 07:00:00 * End time: 16:00:00 * Length of break: 01:00:00 * Capacity Utilization: 100 * No. Ind. Capacities: 1   For test purpose, we recommend using the same values as above. |  |  |
| 6 | Check Intervals and Shifts | Choose Intervals and Shifts in the upper left corner.  On the Change Resource Capacity: Header screen for capacity 001, available shifts are listed in the table at the bottom of the page. We recommend deleting any additional shifts effective within next six weeks.  Choose any line you want to delete, then choose Delete line icon in the upper right.  Choose Back twice to screen Change Resource Capacity: Header. |  |  |
| 7 | Choose Capacity Category 002 | Under Capacities tab, double-click Capacity category: 002 | The Change Resource Capacity Overview screen displays. |  |
| 8 | Check Default Settings for Capacity Category 002 | Repeat step 5 and 6 for category 002 |  |  |
| 9 | Save | Choose Save | Resource XXX in plant 1010 is changed. |  |

# 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 |
| Capacity Planning Evaluation for Discrete Manufacturing | | | |
| [Create Planned Independent Requirements](#unique_14) [page ] 19 | Production Planner | Manage PIRs (F1079) | Independent Requirements for Finished Goods are created. |
| [Material Requirements Planning](#unique_15) [page ] 21 | Production Planner | Schedule MRP Runs (F1339) | MRP Run is executed. |
| Evaluate Capacity Situation | | | |
| [Check Capacity Situation](#unique_16) [page ] 23 | Production Planner | Manage Work Center Capacity (F3289) | The Capacity Bottleneck is identified. |
| [Apply Changes to Available Capacity](#unique_17) [page ] 25 | Production Planner | Manage Work Center Capacity (F3289) | The Capacity Bottleneck is resolved. |
| [Conversion to Production Orders](#unique_18) [page ] 27 | Production Planner | Check Material Coverage (F0251) | Production Order is created. |
| [Production Order Processing for Subassembly](#unique_19) [page ] 28 | Refer to Scope Item BJ5 | Refer to Scope Item BJ5 | Semifinished goods are produced. |
| [Production Order Processing for Final Assembly](#unique_20) [page ] 29 | Refer to Scope Item BJ5 | Refer to Scope Item BJ5 | Finished goods are produced. |
| Capacity Planning Evaluation for Process Manufacturing | | | |
| [Create Planned Independent Requirements](#unique_21) [page ] 31 | Production Planner | Maintain PIRs (F3445) | Independent Requirements for Finished Goods are created. |
| [Material Requirements Planning](#unique_22) [page ] 32 | Production Planner | Schedule MRP Runs (F1339) | MRP Run is executed. |
| Evaluate Capacity Situation | | | |
| [Check Capacity Situation](#unique_23) [page ] 34 | Production Planner | Manage Work Center Capacity (F3289) | The Capacity Bottleneck is identified. |
| [Apply Changes to Available Capacity](#unique_24) [page ] 36 | Production Planner | Manage Work Center Capacity (F3289) | The Capacity Bottleneck is resolved. |
| [Conversion to Process Orders](#unique_25) [page ] 38 | Production Planner | Check Material Coverage (F0251) | Process Order is created. |
| [Process Order Processing](#unique_26) [page ] 40 | Refer to Scope Item BJ8 | Refer to Scope Item BJ8 | Semifinished goods and finished goods are produced. |

# Test Procedures

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

## Capacity Planning Evaluation for Discrete Manufacturing

### 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 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 over time according to dates.

Note Instead of creating a 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 choose App Settings icon. On the MRP Settings screen, choose Area of Responsibility.  Check if only the following entry assigned:  Plant 1 DE / 002 (MRP Controller 002).  Choose AOR status button of this entry if not assigned, click 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: FG1\_CP |  |  |
| 5 | Filter Result | Choose Go to execute. | Material item displays. |  |
| 6 | Select Material Item | Check the material item, and choose Edit in the upper right. |  |  |
| 7 | Edit PIRs | On the screen, enter quantities per period, for example:  In the upcoming several weeks, enter following values for PIR:   * Week 1 (current week + 2 weeks): 20 PC. * Week 2 (current week + 3 weeks): 20 PC. * Week 3 (current week + 4 weeks): 100 PC. * Week 4 (current week + 5 weeks): 100 PC. * Version is Active: YES |  |  |
| 8 | Save PIRs Draft | Choose Save at 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 tailor available capacities and receipts on time to suit requirement quantities. You can use MRP or consumption-based planning for this purpose. Single-item multi-level requirement planning is performed for plant 1010.

Prerequisite

The finished product for MTS (FG1\_CP) is planned at plant level. There is now a requirement for the material Finished Product MTS (FG1\_CP) 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: <FG1\_CP>   Choose Step 2.  For 2. Scheduling Options section:   * Start Immediately: <select>   Choose Define Recurrence Pattern.  On the Scheduling Option screen, make the following entries:   * Start Immediately: X * Recurrence Pattern: Single Run   Choose OK.  Choose Step 3.  For 3 Parameters section:   * Plant: 1010 * Material: FG1\_CP * Changed BOM Components: select * Scheduling: 2 * 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 FG1\_CP 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 Capacity Situation

#### Check Capacity 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

During MRP, planned orders are created and scheduled to meet the material requirements. This process step shows you how to check the capacities for overload on bottleneck resources.

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 Manage Work Center Capacity (F3289). | The Manage Work Center Capacity (F3289) screen displays. |  |
| 3 | Check App Settings | 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 only following entry is assigned:  Plant 1 DE (1010)  MRP Controller 002 (002)  Choose AOR status button of this entry if not assigned, click AOR status button of the corresponding entry to unassign any other entry then choose Back.  Check entries for Load Personalization:   * Critical Load: 100% * Normal Load: 80%   Note You can add Work Center Group as a filter by choosing Adapt Filters > More Filters (Master Data) . Select Work Center Group, choose OK, and then choose Go. |  |  |
| 4 | Filter | Choose following entries as filter, and choose Go.   * Editing Status: All * Load Type: OverLoad * Evaluation Horizon: 6 weeks * Work Center: TURNING1, TURNING2, TURNING9, DRILING, FINICLN, ASSPKG, ASSPKG9   We here only focus on capacity requirement due to PIRs we just created. | A list of bottleneck work centers with Overload situations are presented in an overview list.  If no Overload work center listed, for test purpose, you can go back to Section “Create Planned Independent Requirements”, increase the PIRs for FG1\_CP in step 7. Then rerun the whole process. |  |
| 5 | Check Bottleneck Work Centers | Choose Settings above table. From Columns, you can choose different KPIs.  KPIs on Capacity load (e.g. Max. Load, First Overload, Total Capacity Requirement etc.) give an overview on capacity situation.  Critical situations are highlighted by utilization chart. Red /Yellow/Green bar shows different percentage level of capacity utilization, with color coding according to the Critical Load/Normal Load settings. The Red bar indicates the available capacity exceeds Critical Load percentage, thus there is bottleneck with the work center. |  |  |
| 6 | Next Step | After identifying the bottleneck work center(s), stay on this page and go on test as described in the next section. |  |  |

#### Apply Changes to Available Capacity

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

For the bottleneck resources, you may need to optimize capacity utilization by changing available capacity, e.g., via adding/changing shifts.

Procedure

Log on to the SAP Fiori launchpad as a Production Planner and open Manage Work Center Capacity (F3289). Execute steps as described in previous section Check Capacity Situation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 0 | Check Capacity Situation | Check capacity utilization to identify bottleneck work center, as described in last section Check Capacity Situation. |  |  |
| 1 | Choose Bottleneck Resource | From the bottleneck work center list, choose one of them, for example:   * Work center: TURNING1 (CP-WC1, Turning 1) * Capacity Category: Machine (001) |  |  |
| 2 | Check Detailed Capacity Load | Details on capacity load of the specific work center capacity can be seen on the detailed page. Different views are available for monitoring composition and source order operations of capacity load.  In Overview section, Utilization Chart gives graphical presentation of capacity load for specific period. You can choose different filter to show utilization in different period. Find the specific dates or period in which bottleneck would occur.  In Operations section, the list provides details on related source orders, e.g. Planned Order for SG1\_CP.  In Shift section, it gives review of available capacity for the specific work center. Check the shifts in bottleneck dates, and consider which shifts can be added in these dates in order to add available capacity. For example, if shift YS3 is not arranged, we may consider to add YS3 in these dates for this work center. | Bottleneck dates and possible additional shifts are identified. |  |
| 3 | Choose Edit | Choose Edit in the upper right of the page. | Entries under section Shift become editable. |  |
| 4 | Add Shift | Under section Shift, choose +, and choose Add Shift. Enter following entries, and choose OK.   * Date Range: specific period during which you would like to add shift, dependent on the bottleneck dates * Shift Definition: YS3 (add other shifts if YS3 is already assigned) * Recurrence: Daily | Add Shift screen pops up. |  |
| 5 | Check Shift is Added | Check items in Shift section, choose More at the bottom of the page to show more entries. Shift YS3 is added for the Date Range you specified.  You can choose Settings icon above the table, to set filter e.g., Shift Definition equals to YS3, in order to shorten the list.  After checking, choose Save. |  |  |
| 6 | Further Adjustment (Optional) | On the detailed Work Center Capacity screen, choose Edit in the upper right of the page.  Under section Shift, you can adjust following parameters if needed, and choose Save.   * Shift Utilization: for example, 120% * Number of Capacities: for example, 2   In order to resolve your overload situation you could also use the function Copy Shifts in the Display mode of work center capacity, to copy a shift from one work center to another. |  |  |
| 7 | Check Bottleneck | Check capacity utilization in Overview section. After adding shift, capacity utilization during the specific period should be decreased, to reflect better match between requirement capacity and available capacity. Check if the bottleneck is resolved (all the bars are green), if not, please go back and repeat step 2-6 till no overload anymore. | The bottleneck is resolved. |  |
| 8 | Check Bottleneck for all the Resources | For all the other bottleneck resources, repeat step 1-7 to apply changes to available capacity. | The bottleneck for all resources are resolved. |  |

### Conversion to 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 internally produce the planned orders for goods after capacity bottleneck is resolved.

Prerequisite

The MRP run has generated planned orders for material Subassembly (SG1\_CP) and Final Assembly (FG1\_CP).

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 Find Material screen displays. |  |
| 3 | Select Material | Enter Material number and select Plant and Shortage Definition. Then choose OK.   * Material:: FG1\_CP * Plant: 1010 * Shortage Definition: MRP Standard | The Manage Material Coverage screen display. |  |
| 4 | Find Planned Order | Choose the generated planned order. | Order Information displays. |  |
| 5 | Convert Planned Order to Production Order | Select the drop-down list next to the Planned Order, select Convert, and confirm End Date and Quantity then choose OK.  Repeat step#2 to #5 for SG1\_CP | The production order is created. |  |

### Production Order Processing 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

You can execute the scope item BJ5 for complete processing of production for semi-finished products: SG1\_CP.

Procedure

Complete all the activities under “Production Order Processing for Subassembly” described in the Test Script of the scope item: Make-to-Stock Production - Discrete Manufacturing (BJ5), including:

Material Staging for Subassembly

Release Production Order for Subassembly

Confirm Production Operations for Subassembly

Post Goods Receipt for Subassembly Production Order

Result

Semifinished goods SG1\_CP is produced.

### Production Order Processing 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

You can execute the scope item BJ5 for complete processing of production for Finished products: FG1\_CP.

Procedure

Complete relevant activities under “Production Order Processing for Final Assembly” described in the Test Script of the scope item: Make-to-Stock Production - Discrete Manufacturing (BJ5), including:

Material Staging for Final Assembly

Release Production Order for Final Assembly

Pick Components for Final Assembly

Confirm Production Operations for Final Assembly

Post Goods Receipt for Final Assembly Production Order

Result

Finished goods FG1\_CP is produced.

## Capacity Planning Evaluation for Process Manufacturing

### 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 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 over time according to dates.

Instead of creating a 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 choose App Settings icon. On MRP Settings screen, choose Area of Responsibility.  Check if only the following entry assigned:   * Plant 1 DE / 002 (MRP Controller 002).   Choose AOR status button of this entry if not assigned, click 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: FG2\_CP |  |  |
| 5 | Filter Result | Choose Go to execute . | Material item displays. |  |
| 6 | Select Material Item | Check the material item, and choose Edit in the upper right. |  |  |
| 7 | Edit PIRs | On the screen, enter quantities per period, for example:   * In the upcoming several weeks, enter following values for PIR: * Week 1 (current week + 2 weeks): 500 BT. * Week 2 (current week + 3 weeks): 500 BT. * Week 3 (current week + 4 weeks): 1500 BT. * Week 4 (current week + 5 weeks): 1500 BT. * Version is Active: YES |  |  |
| 8 | Save PIRs Draft | Choose Save at 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 requirement 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 multi-level requirement planning is performed for plant 1010.

Prerequisite

The finished product for MTS (FG2\_CP) is planned at plant level. There is now a requirement for the material Finished Product MTS 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 FG2\_CP>   Choose Step 2.  For 2. Scheduling Options section:   * Start Immediately: <select>   Choose Define Recurrence Pattern.  On the Scheduling Option screen, make the following entries:   * Start Immediately: X * Recurrence Pattern: Single Run   Choose OK.  Choose Step 3.  Choose 4 Parameters and make the following entries:   * Plant: 1010 * Material: MRP for FG2\_CP * Changed BOM Components: select * Scheduling: 2 * 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 FG2\_CP 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 Capacity Situation

#### Check Capacity 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

During MRP, planned orders are created and scheduled to meet the material requirements. In this activity, the capacities are checked for overload on bottleneck resources.

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 Manage Work Center Capacity (F3289). | The Manage Work Center Capacity (F3289) screen displays. |  |
| 3 | Check App Settings | On the Manage Work Center Capacity screen, choose your user name and choose App Settings icon.  On the My Area of Responsibility screen, check if only following entry is assigned:  Plant 1 DE (1010)  MRP Controller 0012 (002)  Choose AOR status button of this entry if not assigned, click AOR status button of the corresponding entry to unassign any other entry then choose Back.  Check entries for Load Personalization:   * Critical Load: 100% * Normal Load: 80% |  |  |
| 4 | Filter | Choose following entries as filter, and choose Go.   * Editing Status: All * Load Type: OverLoad * Evaluation Horizon: 6 weeks * Work Center: MIX01\_CP, BOT01\_CP, BOT02\_CP, PAC01\_CP, PAC02\_CP   We here only focus on capacity requirement due to PIRs we just created. | A list of bottleneck work centers with Overload situations are presented in an overview list.  If no Overload work center listed, for test purpose, you can go back to Section “Create Planned Independent Requirements”, increase the PIRs for FG2\_CP in step 7. Then rerun the whole process. |  |
| 5 | Check Bottleneck Work Centers | Choose Settings above table. From Columns, you can choose different KPIs.  KPIs on Capacity load (e.g. Max. Load, First Overload, Total Capacity Requirement etc.) give an overview on capacity situation.  Critical situations are highlighted by utilization chart. Red /Yellow/Green bar shows different percentage level of capacity utilization, with color coding according to the Critical Load/Normal Load settings. The Red bar indicates the available capacity exceeds Critical Load percentage, thus there is bottleneck with the work center. |  |  |
| 6 | Next Step | After identifying the bottleneck work center(s), stay on this page and go on test as described in the next section. |  |  |

#### Apply Changes to Available Capacity

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

For the bottleneck resources, you may need to optimize capacity utilization by changing available capacity, for example, via adding/changing shifts.

Procedure

Log on to the SAP Fiori Launchpad as a Production Planner and open Manage Work Center Capacity (F3289). Execute steps as described in previous section Check Capacity Situation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step # | Test Step Name | Instruction | Expected Result | Pass / Fail / Comment |
| 0 | Check Capacity Situation | Check capacity utilization to identify bottleneck work center, as described in last section Check Capacity Situation. |  |  |
| 1 | Choose Bottleneck Resource | From the bottleneck work center list, choose one of them, for example:   * Work center: MIX01\_CP (Ink Mixing 01) * Capacity Category: Machine (001) |  |  |
| 2 | Check Detailed Capacity Load | Details on capacity load of the specific work center capacity can be seen on the detailed page. Different views are available for monitoring composition and source order operations of capacity load.  In Overview section, Utilization Chart gives graphical presentation of capacity load for specific period. You can choose different filter to show utilization in different period. Find the specific dates or period in which bottleneck would occur.  In Operations section, the list provides details on related source orders, for example, Planned Order for SG2\_CP.  In Shift section, it gives review of available capacity for the specific work center. Check the shifts in bottleneck dates, and consider which shifts can be added in these dates in order to add available capacity. For example, if shift YS3 is not arranged, we may consider to add YS3 in these dates for this work center. | Bottleneck dates and possible additional shifts are identified. |  |
| 3 | Choose Edit | Choose Edit in the upper right of the page. | Entries under section Shift become editable. |  |
| 4 | Add Shift | Under section Shift, choose +, and choose Add Shift. Enter following entries, and choose OK.   * Date Range: specific period during which you would like to add shift, dependent on the bottleneck dates * Shift Definition: YS3 (add other shifts if YS3 is already assigned) * Recurrence: Daily | Add Shift screen pops up. |  |
| 5 | Check Shift is Added | Check items in Shift section, choose More at the bottom of the page to show more entries. Shift YS3 is added for the Date Range you specified.  You can choose Settings icon above the table, to set filter for example, Shift Definition equals to YS3, in order to shorten the list.  After checking, choose Save. |  |  |
| 6 | Further Adjustment (Optional) | On the detailed Work Center Capacity screen, choose Edit in the upper right of the page.  Under section Shift, you can adjust following parameters if needed, and choose Save.  Shift Utilization: for example, 120%  Number of Capacities: for example, 2  In order to resolve your overload situation you could also use the function Copy Shifts in the Display mode of work center capacity, to copy a shift from one work center to another. |  |  |
| 7 | Check Bottleneck | Check capacity utilization in section Overview. After adding shift, capacity utilization during the specific period should be decreased, to reflect better match between requirement capacity and available capacity. Check if the bottleneck is resolved (all the bars are green), if not, please go back and repeat step 2-6 till no overload anymore. | The bottleneck is resolved. |  |
| 8 | Check Bottleneck for All the Resources | For all the other bottleneck resources, repeat step 1-7 to apply changes to available capacity. | The bottleneck for all resources are resolved. |  |

### Conversion to Process 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 internally produce the planned orders for goods after capacity bottleneck is resolved.

Prerequisite

The MRP run has generated planned orders for semifinished goods (SG2\_CP) and finished goods (FG2\_CP).

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 Find Material screen displays. |  |
| 3 | Select Material | Enter Material number and select Plant and Shortage Definition. Then choose OK.   * Material: FG2\_CP * Plant: 1010 * Shortage Definition: MRP Standard | The Manage Material Coverage screen display. |  |
| 4 | Find Planned Order | Choose the generated planned order. | Order Information displays. |  |
| 5 | Convert Planned Order to Production Order | Choose Change Order on the PldOrd dialog box, choose Convert to Process Order, and confirm End Date and Quantity.  Repeat step 2 to 5 for SG2\_CP | The process order is created. |  |

### Process Order Processing

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

You can execute the scope item BJ8 to continue with the production part. The production process has to be executed at first for the semifinished material (SG2\_CP) and afterwards for the finished product (FG2\_CP).

Procedure

Complete all the activities under “Process Order Processing” described in the Test Script of the scope item: Make-to-Stock - Process Manufacturing Based on Process Order (BJ8), including:

Goods Issue of Batch-Managed Components

Monitor Order Progress

Confirm Production incl.Component Backflush

Post Goods Receipt for Process Order

Result

Semifinished goods and finished goods are produced.

# Appendix

## Succeeding Processes

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

|  |  |
| --- | --- |
| Scope Item | 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 Test Script Period-End Closing - Plant (BEI).  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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