

Tutorial: Material Baking

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Tutorial: Material Baking

Estimated time to read: 2 minutes

Objective

Learn how to configure, execute, and monitor material baking to reset floor life.

Step 1: Enable Feature

- Go to system configuration
 - Set:
 - `/SMT/MaterialBaking/IsEnabled = True`
-

Step 2: Configure Baking Oven

- Navigate to **Resources**
 - Select or create a resource
 - Set:
 - `SMTIsBakingOven = true`
 - `SMTBakingOvenType = appropriate value`
-

Step 3: Configure Product Attributes

- Open the product, create a new version and set the following Product Characteristics:
 - `SMT Body Thickness`
 - `SMT Is BGA`

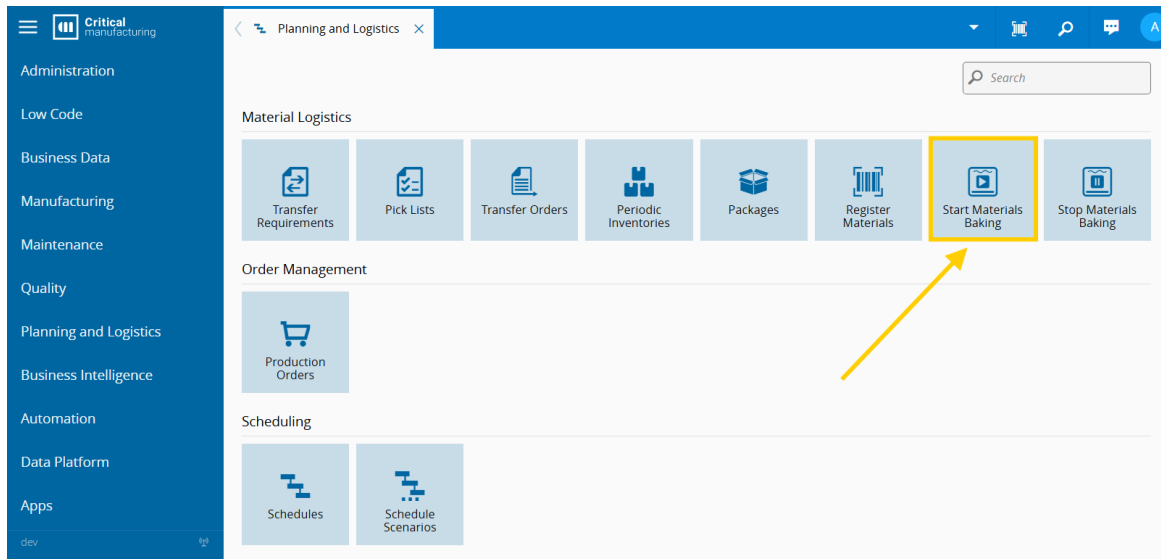
These are required for baking time calculation.

Step 4 (Optional): Configure Rebake Limits

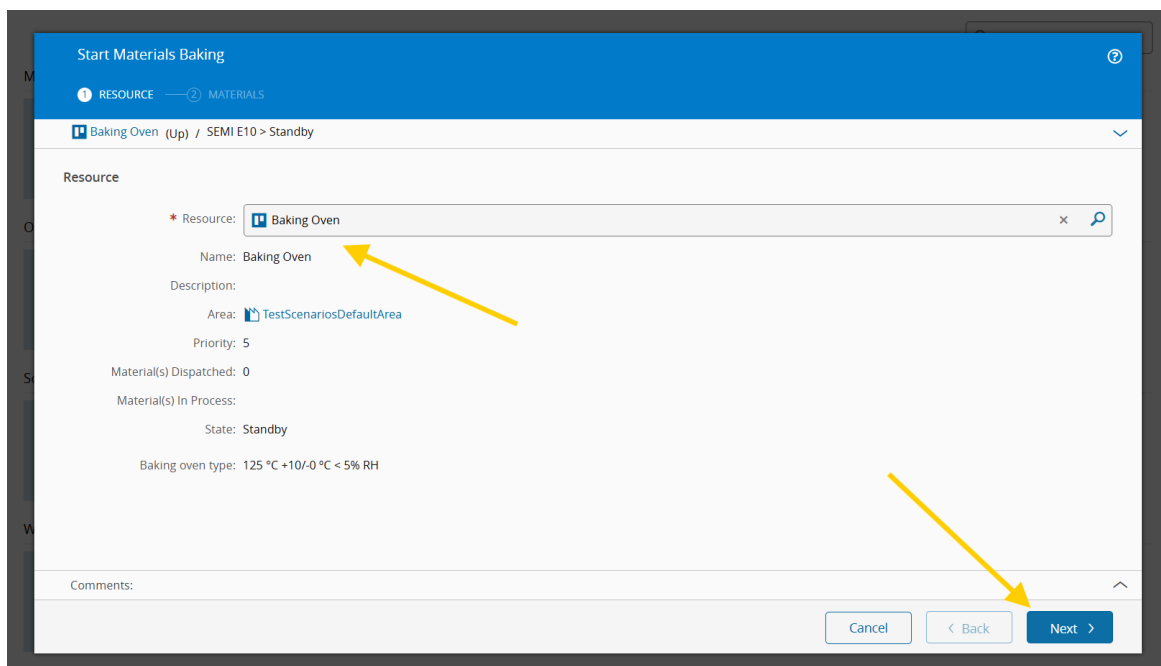
- On the product:
 - Set `SMTDefaultNumberOfRebakes`
 - On the material (if needed):
 - Override `SMTRebakesLeft`
-

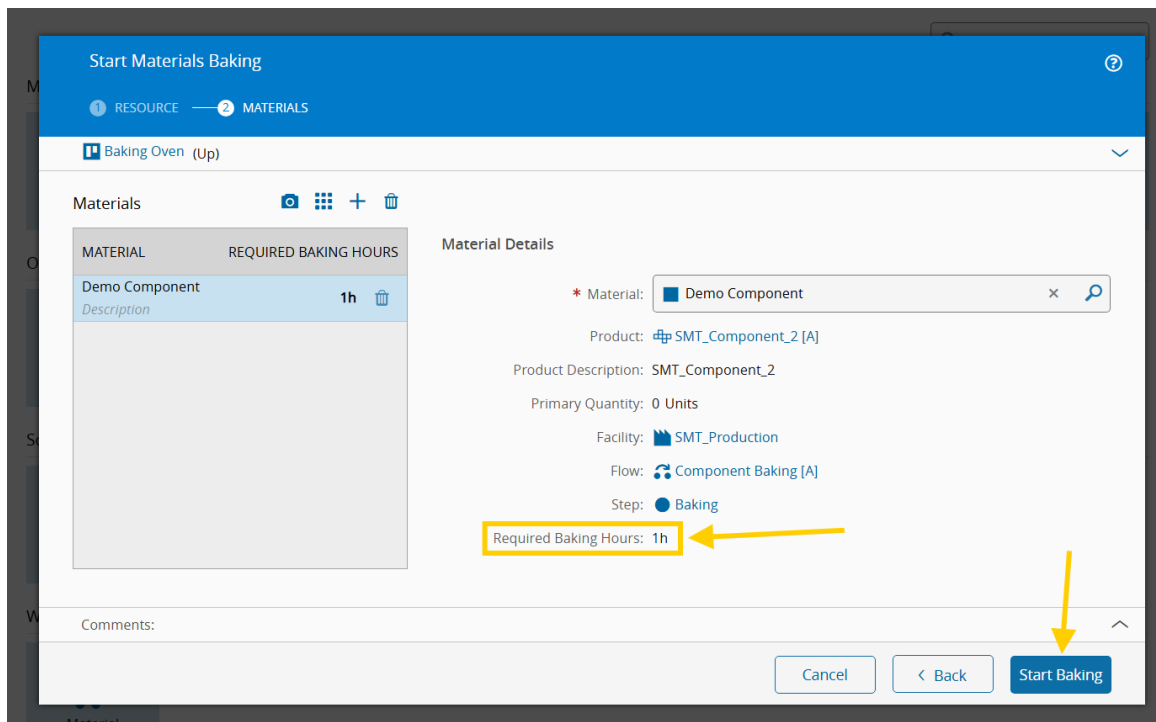
Step 5: Start Materials Baking

- Go to **Planning and Logistics** and Select **Start Materials Baking**



- Select:
 - Baking oven
 - Materials to bake

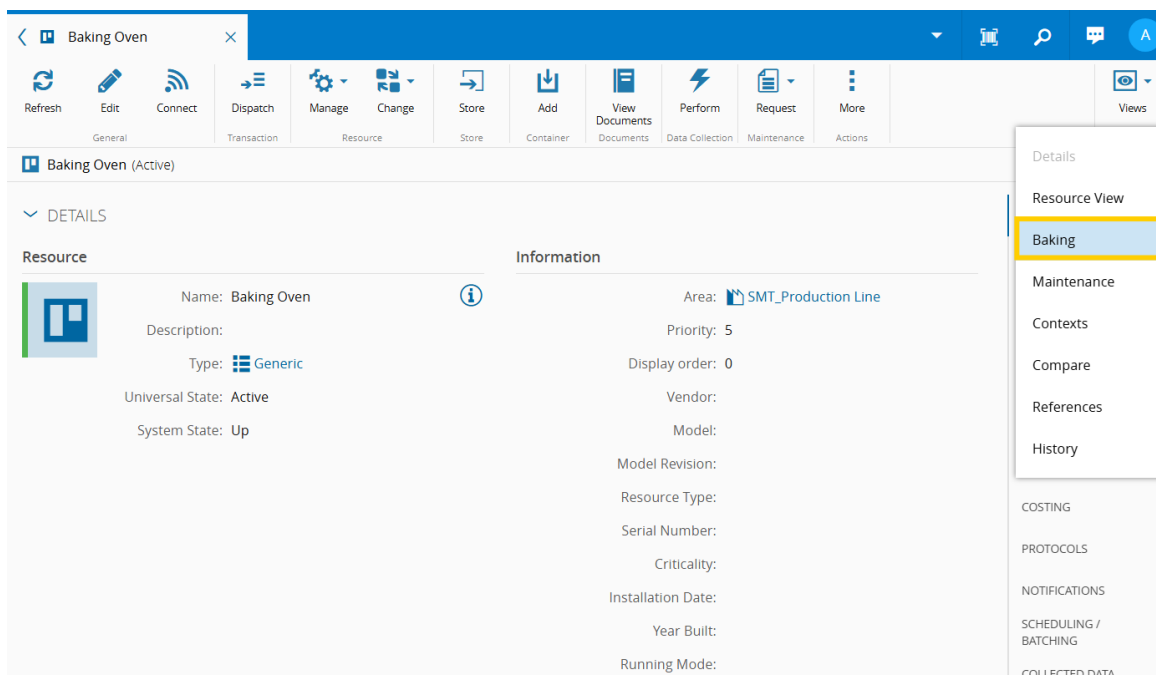




- Review the required baking time per material
- Click **Start Baking**

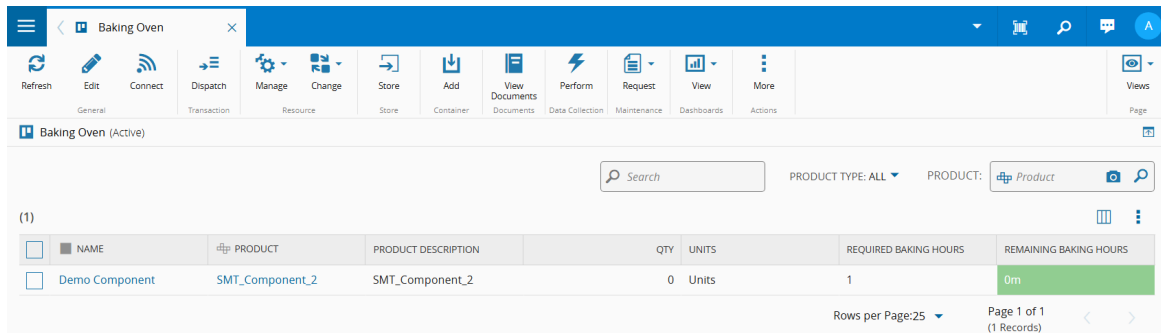
Step 6: Monitor Baking

- Open the baking oven resource and access the **Baking View**



- Track:
 - Materials in oven

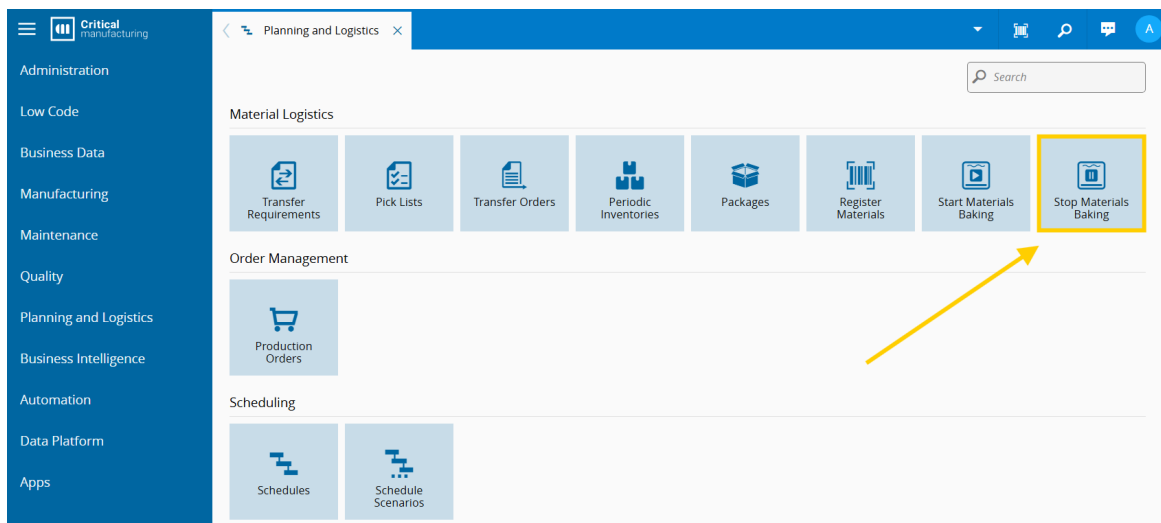
- Remaining baking time
- Identify completion:
 - Remaining time reaches 0



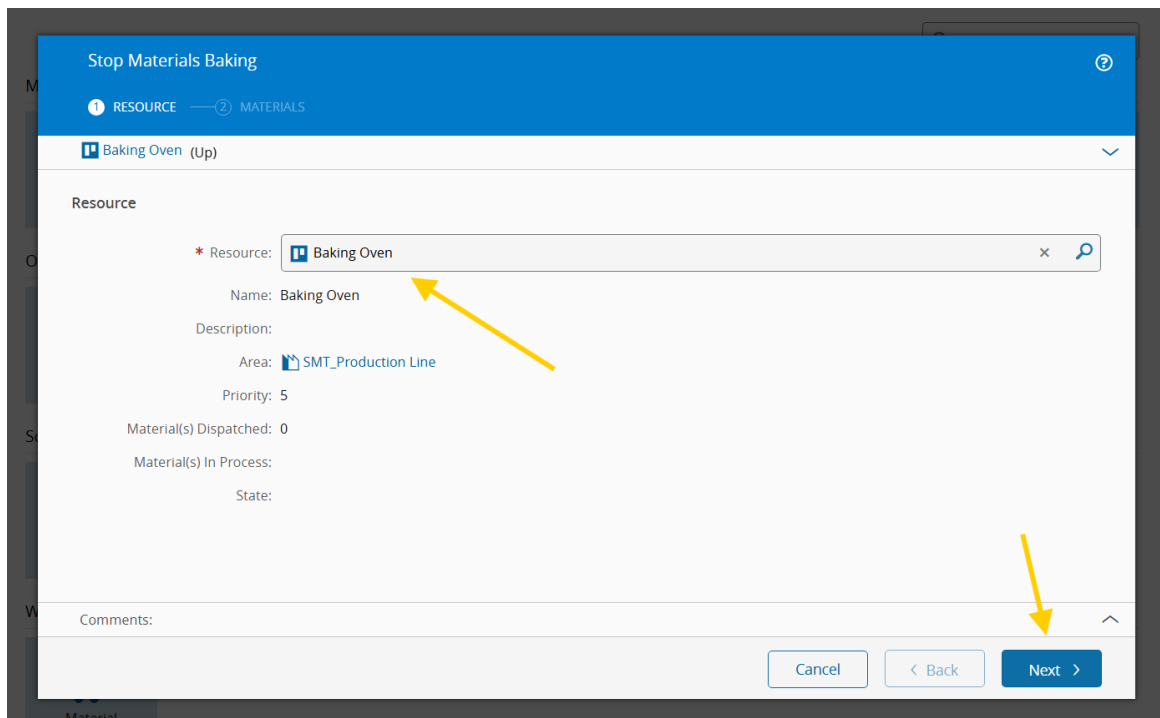
NAME	PRODUCT	PRODUCT DESCRIPTION	QTY	UNITS	REQUIRED BAKING HOURS	REMAINING BAKING HOURS
Demo Component	SMT_Component_2	SMT_Component_2	0	Units	1	0m

Step 7: Stop Materials Baking

- Go to **Planning and Logistics** and select **Stop Materials Baking**



- Select:
 - Baking oven
 - Materials to remove



Stop Materials Baking

1 RESOURCE — 2 MATERIALS

Baking Oven (Up)

Resource

* Resource: Baking Oven

Name: Baking Oven

Description:

Area: SMT_Production Line

Priority: 5

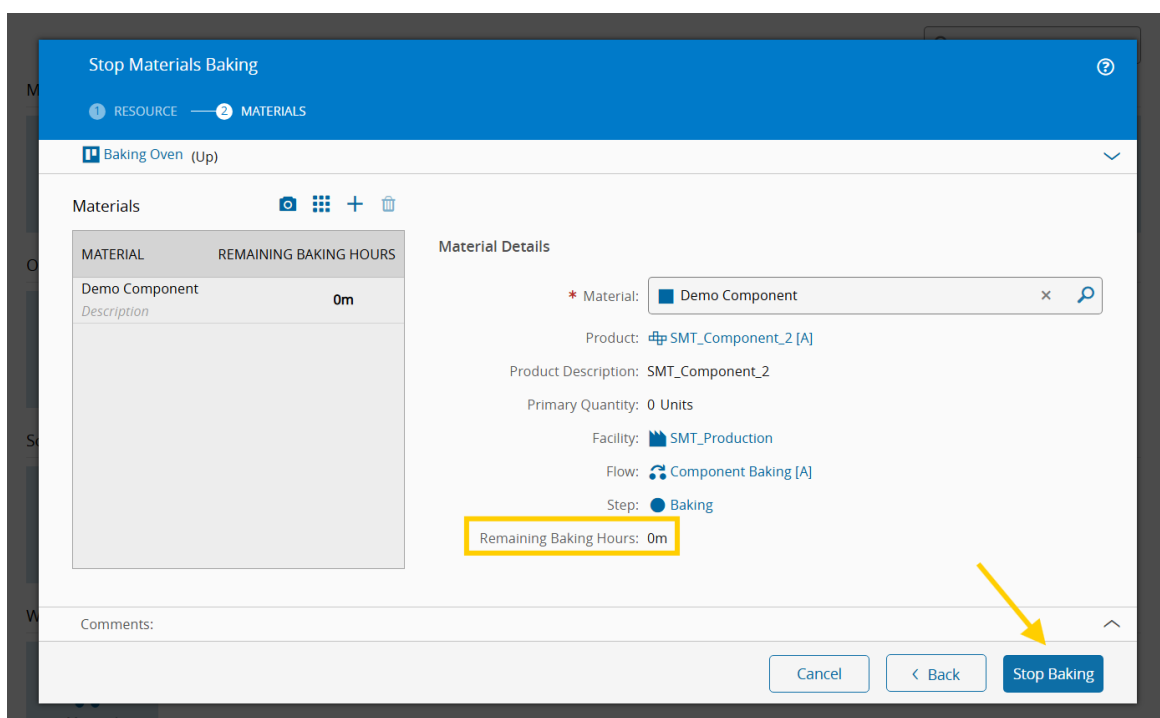
Material(s) Dispatched: 0

Material(s) In Process:

State:

Comments:

Cancel < Back Next >



Stop Materials Baking

1 RESOURCE — 2 MATERIALS

Baking Oven (Up)

Materials

MATERIAL	REMAINING BAKING HOURS
Demo Component	0m

Material Details

* Material: Demo Component

Product: SMT_Component_2 [A]

Product Description: SMT_Component_2

Primary Quantity: 0 Units

Facility: SMT_Production

Flow: Component Baking [A]

Step: Baking

Remaining Baking Hours: 0m

Comments:

Cancel < Back Stop Baking

- Click **Stop Baking**

Expected Result

- Materials completing required baking:
 - Have floor life reset (if configured)
- Materials removed early:
 - Do not have floor life reset

Frequent Configuration Questions

Why can't I move material manually?

Material movement related to baking must be performed using the baking wizards. Manual movement is not supported.

Why is the calculated baking time incorrect?

Verify the following:

- The product attributes are correctly configured.
- The baking table configuration is valid and up to date.

Why is the floor life not being reset?

Check the relevant configuration flags and ensure they are enabled as expected.



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