



Critical
manufacturing
an ASM PT company

Trainee Scenario

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Trainee Scenario


Estimated time to read: 10 minutes

The Trainee Scenario is common across industries in which some employees are considered trainees (apprentices) and thus can only work under the supervision of a more experienced (trainer) employee.

This tutorial will show you how to use the Trainee Scenario.

Overview

This document will guide you through the setup of a scenario where you can configure an **Employee** as a Trainee for a **Certification**. The **Certification** in question will later allow the **Employee** to work on any given **Resource** that requires the **Employee** to hold the **Certification**. This scenario will allow another **Employee** to act as the Trainer and supervise any operations performed on the **Resource** while the Trainee does not yet hold the **Certification**.

 **Note**

After successfully obtaining the **Certification**, the employee no longer requires supervision.

Scenario Setup

To enable trainees for a specific **Certification**, follow the steps described on the table below:

Step Number	Step	Description
1	Create the Employees	You need at least one Trainer and one Trainee.
2	Create the Certification	Set a specific property in the Certification to allow trainees.
3	Assign Certification to Employees	Set adequate Certification configurations for each Employee .
4	Configure the Resource	Set adequate personnel requirements for a Resource .

Table: Steps to setup the trainee-related Entities

After the setup of these entities is performed, you can proceed with assigning **Certification** to **Employees**, as Trainer or Trainee, and at the selected **Resource**. The steps below will help you to create the adequate scenario:

Step 1: Create the Employees

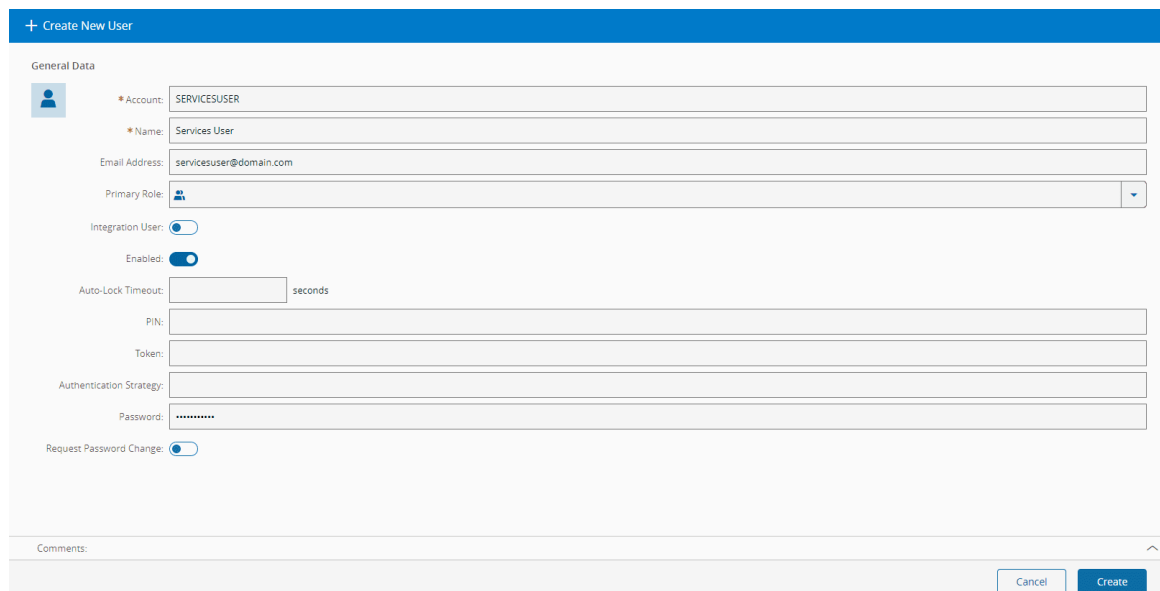
The following diagram shows you the relationships between **User** and **Employee**. You need a Critical Manufacturing MES **User** associated to your system user account and you must have an **Employee** associated to that **User** to perform operations on **Resources**.

```
graph LR
    Main[Employee] === A1[User]
    A2[Resource] -.- N1[Resource Personnel Requirements] -.- A3[Certification] --- Main

classDef mermaid_title color:#000, fill:#fafafa, stroke:#fafafa, stroke-width:0x, font-size:100%, font-weight:200;
classDef mermaid_start color:#000, fill:#fafafa, stroke:#fafafa, color:#fafafa, stroke-width:0x, font-size:100%, visibility: hidden;
classDef mermaid_businessdata color:#000, fill:#65CDE8, stroke:#65CDE8, stroke-width:0px, font-size:100%;
classDef mermaid_nonbusinessdata color:#000, fill:#B7DEE8, stroke:#B7DEE8, stroke-width:0px, font-size:100%;
classDef mermaid_entity color:#000, fill:#FB9F53, stroke:#FB9F53, stroke-width:0px, font-size:100%;
classDef mermaid_entitylinked color:#000, fill:#FCD5B5, stroke:#FCD5B5, stroke-width:0px, font-size:100%;
classDef mermaid_context color:#000, fill:#B9CDE5, stroke:#B9CDE5, stroke-width:0px, font-size:100%;
classDef mermaid_optional color:#000, fill:#B7DEE8, stroke:#65CDE8, stroke-width:1px, font-size:100%, stroke-dasharray: 5 5;
class Main mermaid_entity
class A1,A2,A3,A4,A5,A6,A7,A8,A9,A10,A11,A12 mermaid_businessdata
class N1,N2,N3,N4,N5,N6 mermaid_nonbusinessdata

click Main ".../userguide/business-data/employee"
click A1 ".../userguide/administration/security/users"
click A2 ".../userguide/business-data/resource"
click A3 ".../userguide/business-data/certification"
```

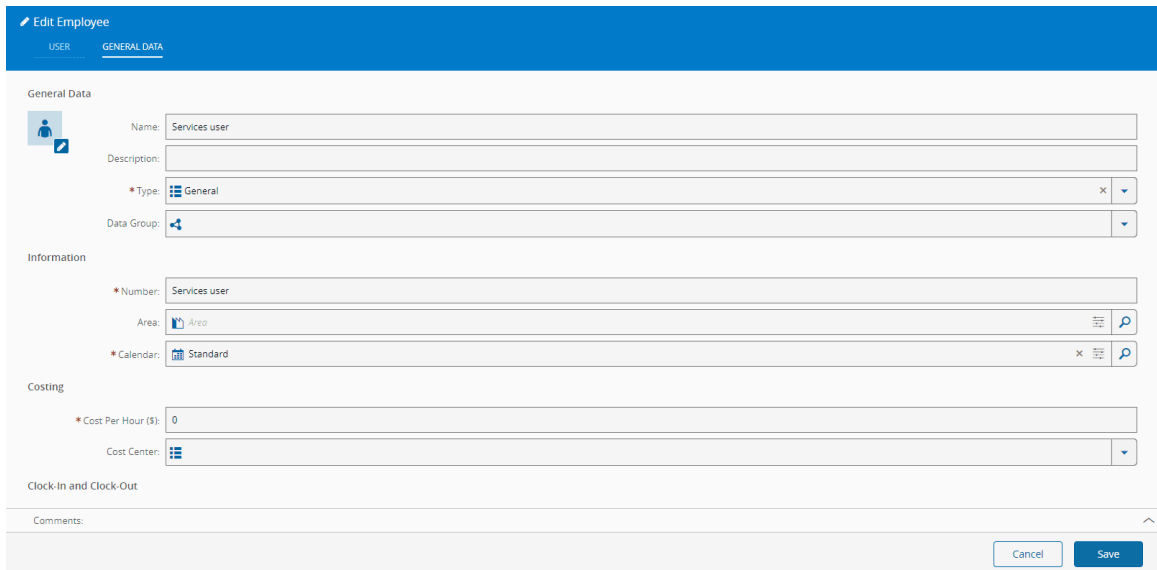
Begin by creating the **Users** and **Employees** for the scenario where you have one Trainer and one Trainee. Considering a situation where there are no system objects created and you are starting from a clean system. First of all, create the **User** for the Trainer by going to the **Security** entity in the **Administration** menu, accessing the Users section, and creating a new **User**, which in this case is the Services User you see below:



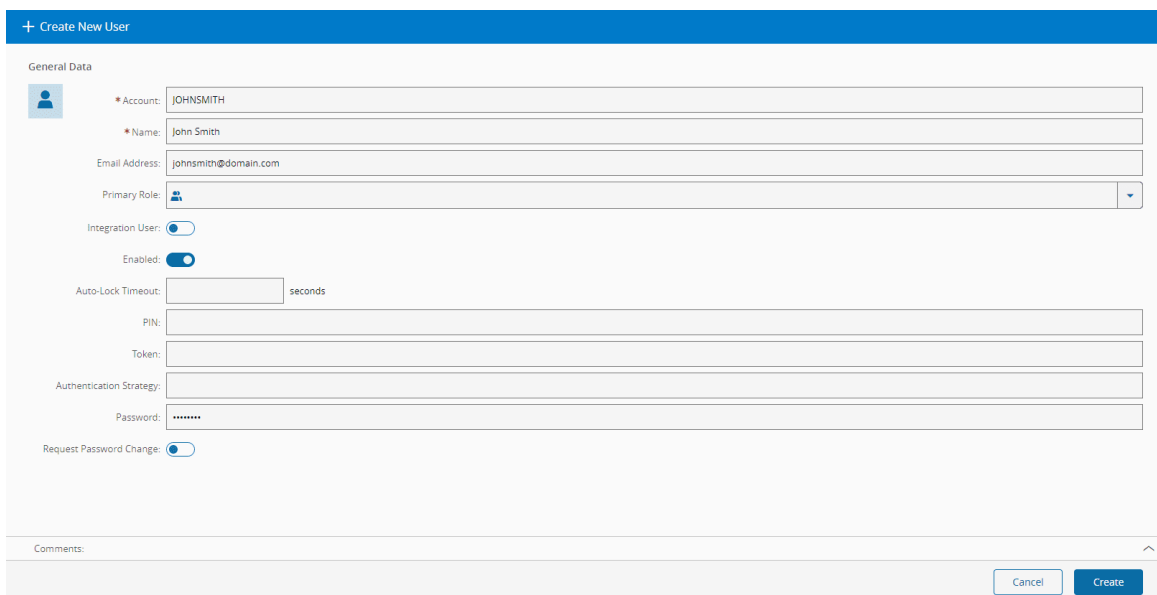
Info

If users already exist, you can also use an existing system user as a Trainer, provided that **User** has an appropriately associated **Employee**.

Now create an **Employee** to associate to the **User** you just created. Go to the **Employee** entity in the **Business Data** menu and create a new **Employee**:



After the Trainer is created, create the **User** for the **Employee** that will be the Trainee:



*** Create Employee**

USER — GENERAL DATA

General Data

Name: John Smith

Description:

* Type: General

Data Group:

Information

* Number: 12345

Area: Area

* Calendar: Standard

Costing

* Cost Per Hour (\$): 0

Cost Center:

Clock-In and Clock-Out

Comments:

Cancel < Back Create

After all user-related objects are created, move to the **Certification**.

Step 2: Create the Certification

Navigate to the **Business Data** menu, select the **Certification** entity and create the new **Certification** that will be assigned to the **Employees**.

*** Create Certification**

GENERAL DATA

General Data

Name: Chocolate Chip Cookie Baking

Description:

* Type: General

Data Group:

Information

* Owner Role: Administrators

Information URL:

Distribution List:

Send Notification On Changes:

Send Notification When Certification is Required:

Permissions

Allow Manual Grants:

Comments:

Cancel Create

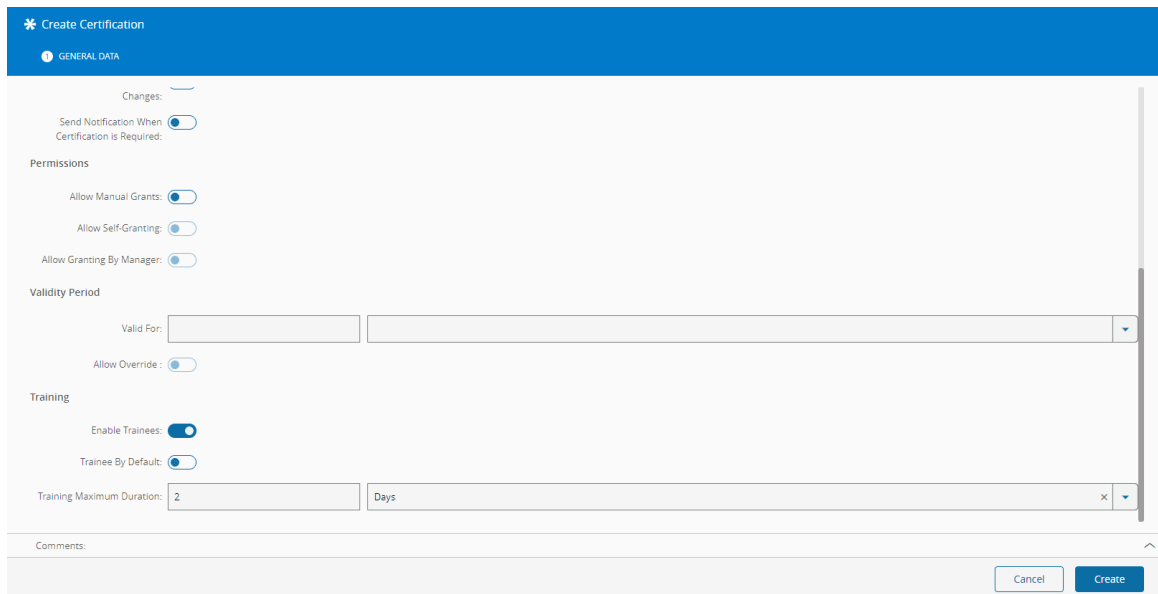
Several properties must be configured in the **Certification** to allow trainees:

Property	Description
Allow Manual Grants	Whether you can manually grant the Certification to Employees .
Enable Trainees	Whether trainees will be allowed for this Certification .
Trainee by Default	Whether new Employees that are assigned the Certification will be set as Trainee By Default.

Property	Description
Training Maximum Duration	Set the time period that will be used when assigning the Certification to an Employee .

Table: Relevant properties to allow trainees for a given Certification

Set the **Allow Manual Grants** and **Enable Trainees** flags as `true` and select a value of 2 days for the duration of the training period:



The screenshot shows the 'Create Certification' form with the following settings:

- Permissions:**
 - Allow Manual Grants:
 - Allow Self-Granting:
 - Allow Granting By Manager:
- Validity Period:**
 - Valid For: [] []
 - Allow Override:
- Training:**
 - Enable Trainees:
 - Trainee By Default:
 - Training Maximum Duration: 2 Days

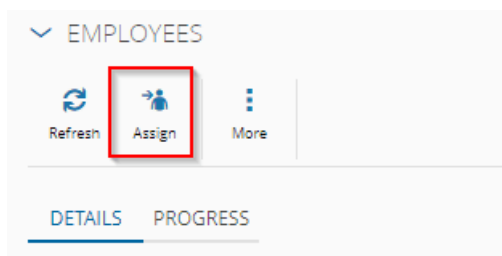
Buttons: Cancel, Create

Info
For more information, see [Create Certification](#).

Select **Create** to move to the next step.

Step 3: Assign Certification to Employees

With all objects now created, assign the **Certification** to both **Employees**. Open the **Certification** you created, navigate to the **Employees** section in the **Details** view and select **Assign** located on top of the grid:



Select both **Employees** from the list of available entries and select **Next** to continue.

Assign Employees To Certification

EMPLOYEES — CERTIFICATION

Chocolate Chip Cookie Baking

TYPE: General Team: Team Manager: Employee Search

Selected Employees (0)

EMPLOYEE	NUMBER	TYPE	TEAM	MANAGER
<input type="checkbox"/> John Smith	12345	General		
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/> Services user	Services user	General		
<input type="checkbox"/>				

Rows per Page: 25 Page 1 of 1 (7 Records)

Comments:

Cancel < Back Next >

In this section you can configure the **Certification** assignment for both **Employees**. Ensure that the Trainer and Trainee are configured accordingly:

Trainer

Set the **Granted** flag to `true` and then set the **Employee** as a Trainer for this **Certification**. Since the process is manual, the current date will be set as the certification date.

Warning

Setting an **Employee** as Trainer for this **Certification** is an individual process, meaning that it does not automatically make the **Employee** a Trainer for any other **Certification**.

Assign Employees To Certification

EMPLOYEES — CERTIFICATION

Chocolate Chip Cookie Baking

Employees Employee Certification Details

EMPLOYEES	CERTIFICATION DATE
Services user (Services user)	8/15/2022, 10:34:54 AM
John Smith (12345)	

Planned Date: MM/dd/yyyy HH:mm PP

Granted:

Certification Date: 08/15/2022 10:34 AM

Trainer:

Trainee:

Valid To:

Remarks: This is the trainer

Comments:

Cancel < Back Assign

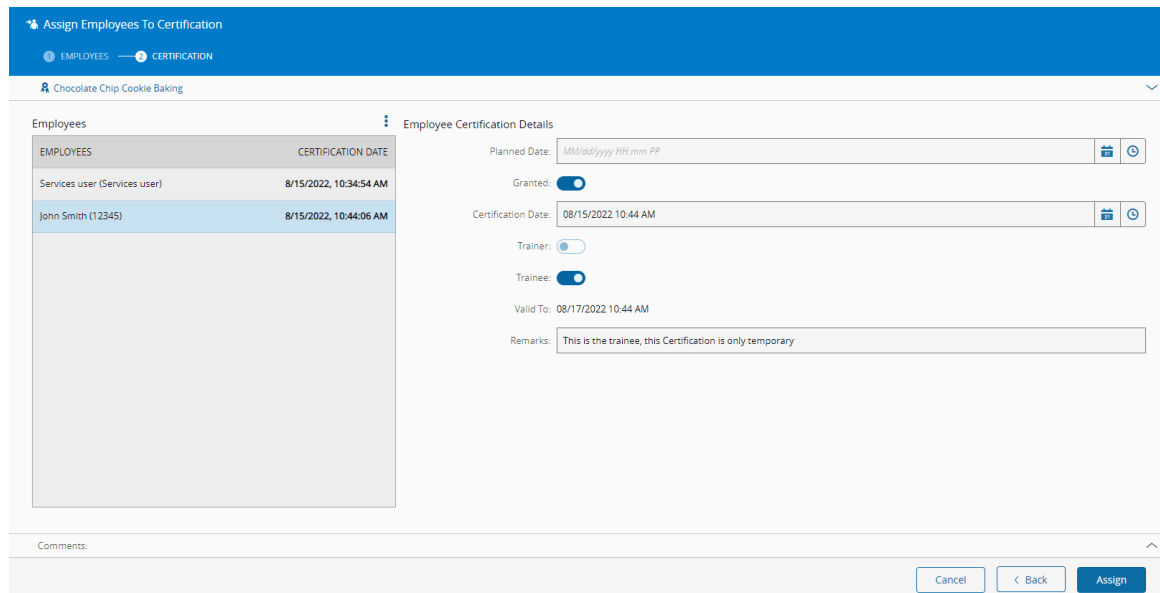
Trainee

Since we configured the **Certification** to allow manual grants, proceed to granting the **Certification** to the **Employee** and set the Trainee flag as `true`. Notice that the **Valid To** value has been automatically set with

the date as `Certification Date + Training Maximum Duration`, indicating the proper validity of the **Certification** assigned to the **Employee** that is set as Trainee.

Warning

After this period expires, if the Trainee status of **Certification** is not changed (unsetting the **Trainee** flag), the **Employee** will not be allowed to check-in at a **Resource** that requires this **Certification** for operation.

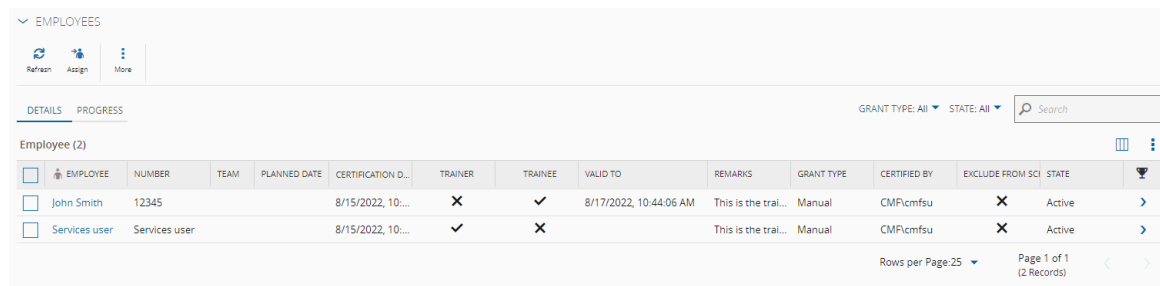


The screenshot shows the 'Assign Employees To Certification' interface. On the left, a table lists employees and their certification dates:

EMPLOYEES	CERTIFICATION DATE
Services user (Services user)	8/15/2022, 10:34:54 AM
John Smith (12345)	8/15/2022, 10:44:06 AM

On the right, the 'Employee Certification Details' form is visible, showing fields for Planned Date, Certification Date, Trainer, Trainee, Valid To, and Remarks. The Trainee toggle is checked, and the Remarks field contains the text: 'This is the trainee, this Certification is only temporary'.

After this step is completed, these are the contents of the **Employees** section of the **Certification**:



The screenshot shows the 'Employees' section of a Certification. It features a table with the following data:

EMPLOYEE	NUMBER	TEAM	PLANNED DATE	CERTIFICATION D...	TRAINER	TRAINEE	VALID TO	REMARKS	GRANT TYPE	CERTIFIED BY	EXCLUDE FROM SCI	STATE
John Smith	12345		8/15/2022, 10:...		✗	✓	8/17/2022, 10:44:06 AM	This is the tra...	Manual	CMFicmfsu	✗	Active
Services user	Services user		8/15/2022, 10:...		✓	✗		This is the tra...	Manual	CMFicmfsu	✗	Active

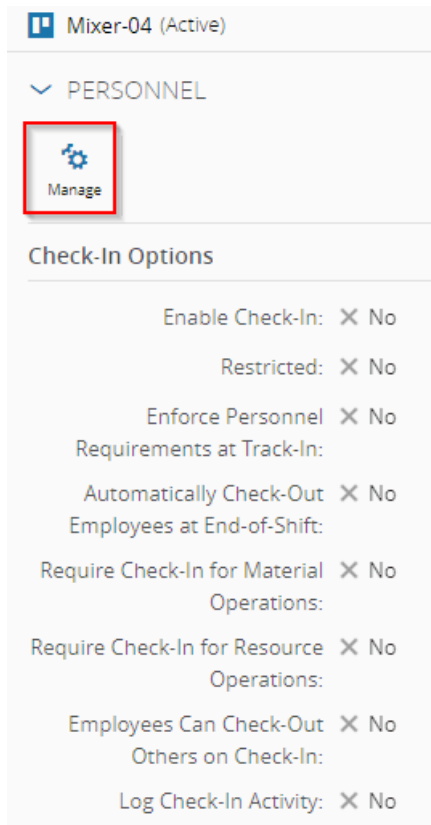
Info

For more information, see [Assign Employees to Certification](#).

Step 4: Configure the Resource

In the **Resource**, configure it to require the **Certification** you just configured for operations.

Navigating to the **Business Data** menu, select the **Resource** entity and open the **Resource** you want to configure. Navigate to the **Personnel** section in the **Details** view and select **Manage** located on top of the grid:



Several properties must be configured in the **Resource** to set personnel requirements including the need for a **Certification**:

Property	Description
Enable Check-In	Must be set to allow other options for personnel requirements on this Resource .
Restricted	Whether the Employee performing check-in must select the position in which the Employee is checking-in.

Table: Relevant properties to allow personnel requirements for a given Resource

Set the **Enable Check-In** and **Restricted** flags as `true` and continue to the next section.

Manage Personnel Information

1 CHECK-IN — 2 PERSONNEL REQUIREMENTS

Mixer-04 (Up) / SEMI E10 > Standby

Options

- Enable Check-In:
- Restricted:
- Enforce Personnel Requirements at Track-In:
- Automatically Check-Out Employees at End-of-Shift:
- Require Check-In for Material Operations:
- Require Check-In for Resource Operations:
- Employees Can Check-Out Others on Check-In:
- Log Check-In Activity:

Add a new **Certification** by selecting + in the left section. Select the **Certification** you created and set the following values in the other fields:

- Quantity (set as 1) - the number of required **Employees** that hold the **Certification**.
- Allocation (set as 1) - configures the percentage of working time that is allocated to each **Employee**. A value of 1 indicates 100% allocation.
- Allocation Type - used for Scheduling purposes, not important for this tutorial, leave it with the default value.
- Exclusive (set as false) - indicates whether the **Certification** should be used exclusively by a single **Employee**. If you set this as true, the value for Allocation will be set as 1.

Info

For more information, see [Manage Personnel](#).

Manage Personnel Information

CHECK-IN PERSONNEL REQUIREMENTS

Mixer-04 (Up) / SEMI E10 > Standby

Certifications

Chocolate Chip Cookie Baking

Certification Details

* Certification: Chocolate Chip Cookie Baking

* Quantity: 1

* Allocation: 1

* Allocation Type: Setup And Process

Exclusive:

Comments:

Cancel < Back Update

Select **Update** to close the wizard and move on to the next step.

Scenario example

Consider that the Trainee is undergoing training for the **Certification** that was assigned above. To continue training, the Trainee is required to perform operations on a **Resource**.

From the point of view of the Trainee

The Trainee is logged into the system and navigates to the **Resource View** of the **Resource** configured above. Since the **Resource** is set as restricted to specific **Certification** holders and requires check-in to be operated, the Trainee selects **Check-In** on the top ribbon:

Check-In at Resource

POSITION SELECTION CHECKED-IN EMPLOYEES

Mixer-04 (Up) / SEMI E10 > Standby

Select a Certification

Positions

Chocolate Chip Cookie Baking (Signature Required) 1 required, 0 checked-in

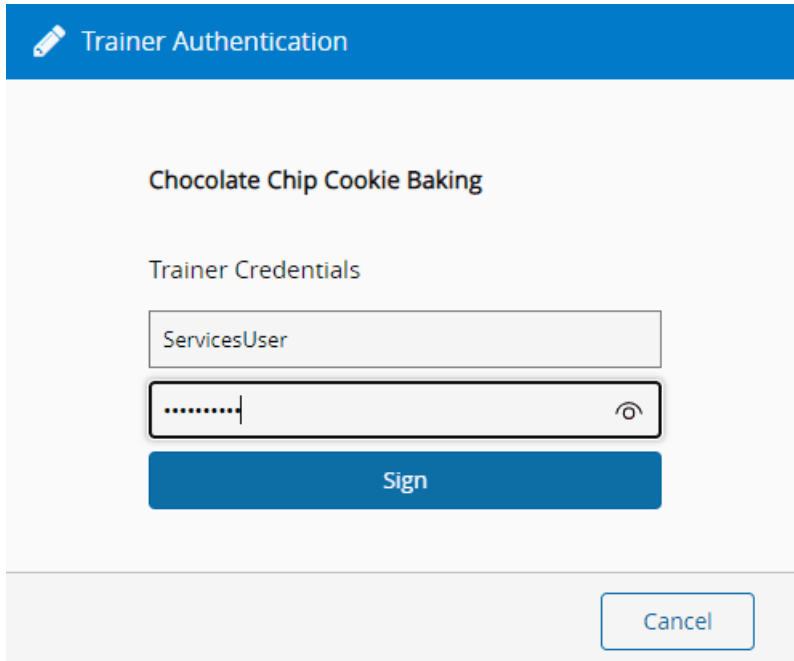
Comments:

Cancel < Back Next >

Note

The **Certification** has the indication that it requires a signature of a Trainer for proper check-in, thus fulfilling the personnel requirements configured above.

Select the **Certification** and proceed to the next step, since there are no other **Employees** checked-in. When attempting to complete the check-in process, a window will be displayed requiring a signature from a defined Trainer for that **Certification** in that **Resource**:



Trainer Authentication

Chocolate Chip Cookie Baking

Trainer Credentials

ServicesUser

.....

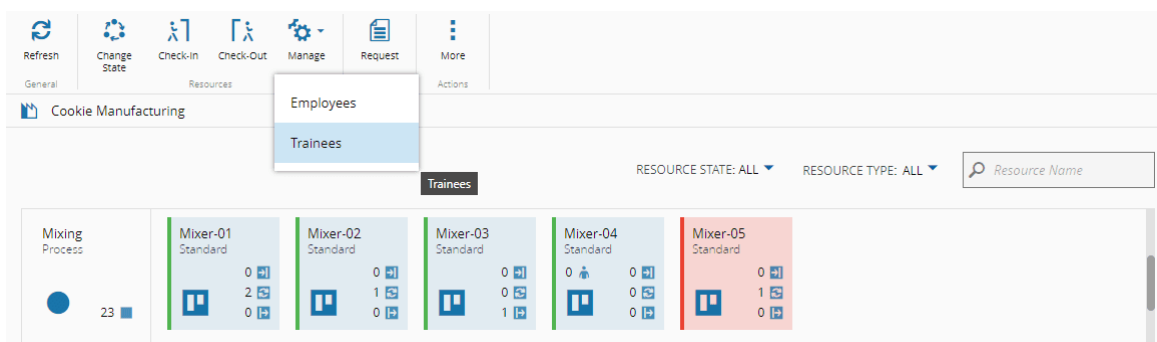
Sign

Cancel

After the signature (biometric, password or PIN) is entered, the Trainee can continue with the process.

From the point of view of the Trainer

After a Trainee is logged into the system (with proper authentication from the supervising Trainer), a Trainer can manage the Trainee using the **Manage** operation, accessible through the **Area View** or directly through a **Resource**.



Refresh Change State Check-In Check-Out Manage Request More

General Resources Actions

Cookie Manufacturing

Employees

Trainees

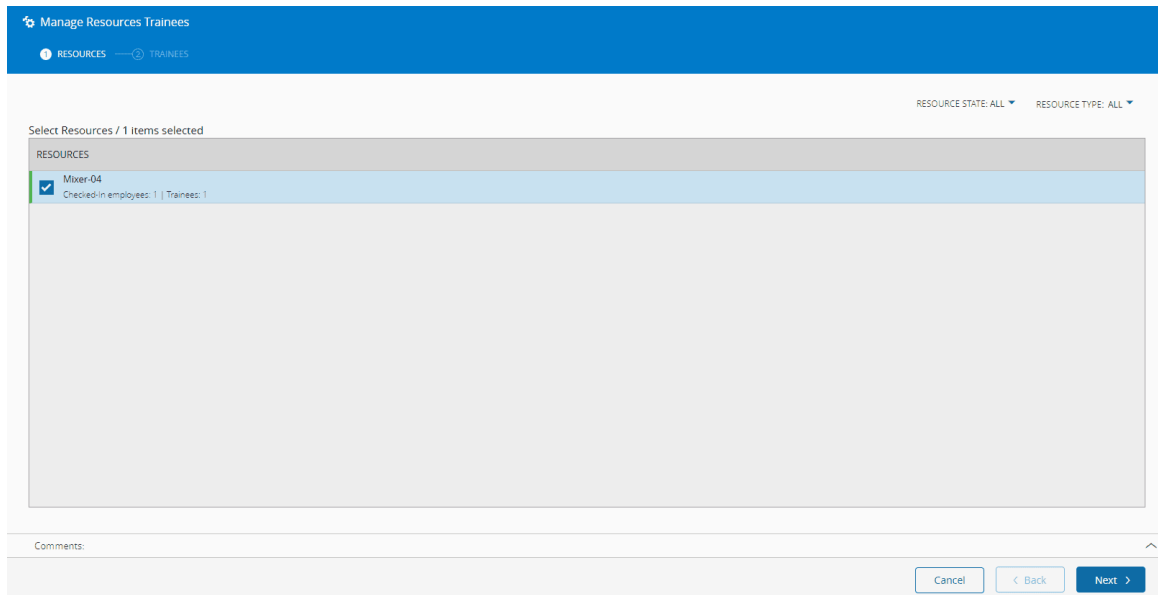
Trainees

RESOURCE STATE: ALL RESOURCE TYPE: ALL Resource Name

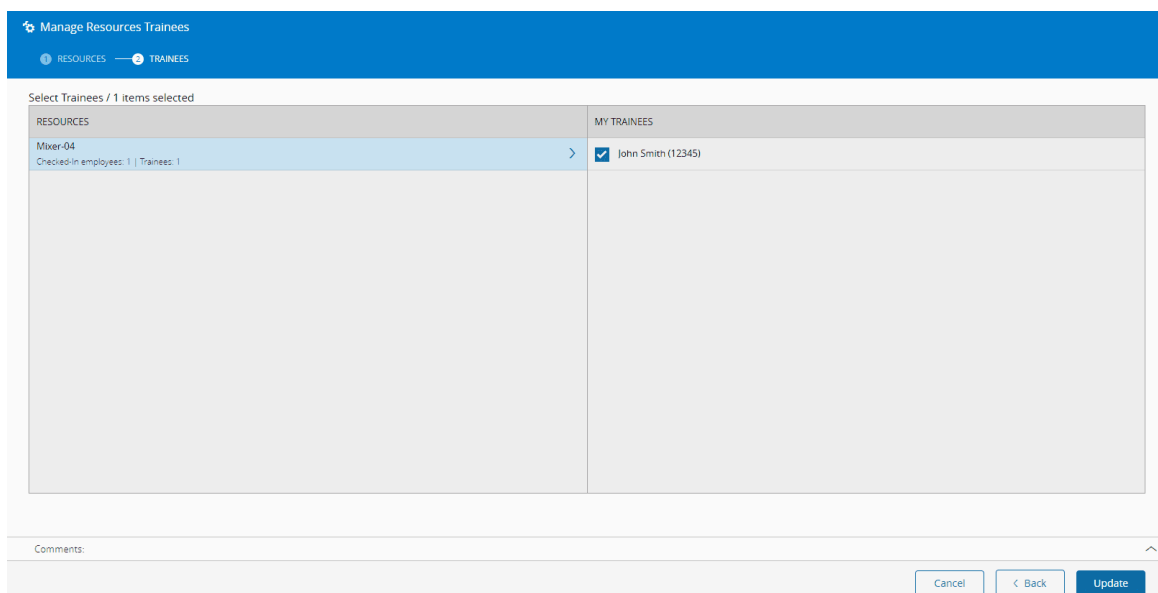
Mixing Process	Mixer-01 Standard	Mixer-02 Standard	Mixer-03 Standard	Mixer-04 Standard	Mixer-05 Standard
23	0	0	0	0	0
	2	1	0	0	1
	0	0	1	0	0

Info

Using the **Area View** provides the extra advantage to check-in or check-out multiple **Employees** at multiple **Resources** in the **Manage Resources Trainees** wizard.



In this wizard, a Trainer can manage which of the trainees is logged into a specific **Resource** and perform check-in/check-out operations by selecting/deselecting the flag next to the Trainee.



i Info

For more information, see [Manage Trainees](#).

Trainee Check-ins at Maintenance Activity Orders

If there is an active Maintenance Activity Order that requires check-in (the property `Restrict Check In` is set to `true`), when an Employee is checking-in using a Certification for which they are a Trainee (the property `Is Trainee` is set to `true`), the identification and electronic signature of a valid certified Trainer (with state as `Active` or `Grace Period` and `Is Trainer` set to `true`). Note that if the Trainer has the property `Require Clock-In` set to `true`, the Trainer must be Clocked-In.



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