

Machine Usage Template

Module Guide: Machine Usage Template

Module Location

Settings > Production > Machine Usage Template

Module Purpose

The **Machine Usage Template** module is an advanced configuration feature that allows for the creation of dynamic data input forms to record machine operational parameters. Its purpose is to create specific templates that can be attached to certain machines, enabling operators to record relevant, structured data during the production process, such as temperature, pressure, speed, or other Quality Control parameters.

1. Main View (Template List)

The main page displays a list of all the templates or form designs that have been created.

View Explanation

- **Filter:** Allows searching for templates by **Design Name**.
- **Template List Table:**
 - **Design Name:** A unique name for each created template.
 - Currently, the table shows "...No Data...", indicating that no templates have been defined.

- **Action Buttons:**

- **Add New:** Opens the form to create a new machine usage template.

2. Add Machine Usage Template Page

This is the main configuration page where a dynamic form template is built from scratch.

View Explanation

- **Design Name:** A field to provide a unique name for the template being created (e.g., "Mixer Machine Quality Check Form," "Daily Oven Machine Logsheet").

- **Machine Selection:**

- Two list boxes function to link this template to specific machines.
- Users select machines from the **Available Machines** list (taken from the **Machine Master**) and move them to the **Selected Machines** list.

- **Dynamic Form Configuration:**

- The form is divided into two parts: **Header Object** and **Detail Object**.
- **Header Object:** Used for parameters that are filled in **once** per usage session (e.g., Operator Name, Shift, Work Order Number).

- **Detail Object:** Used for parameters that are filled in **repeatedly** (e.g., Hourly Temperature Checks, Quality Notes per batch).
- **Field Attributes:** For each row in both the Header and Detail, users can define:
 - **Field Code & Field Name:** The ID and label for the input column.
 - **Field Type:** The type of input (text, number, date, dropdown).
 - **Data Type:** The type of data (e.g., string, integer, decimal).
 - **Default Value:** The default value that will appear.
 - **Size:** The maximum character length.
 - **Required:** Specifies whether the field must be filled in.
 - **Readonly:** Specifies if the field is read-only or editable.
 - **Order No:** The display order of the field on the form.

3. Steps to Create a New Template

1. From the main page, click the **Add New** button.
2. Enter a descriptive **Design Name**.

3. Select one or more machines from the **Available Machines** list and move them to **Selected Machines**.
4. Define the fields for the **Header Object** as needed.
5. Define the fields for the **Detail Object** if repeated data entry is required.
6. Carefully set each attribute (Field Name, Type, Required, etc.).
7. Click **Save**.

4. Integrated Workflow & Business Process

- **Data Collection on the Production Floor:** When operators run a Work Order on a machine linked to a template, this dynamic form will appear on their terminal or tablet. The operators then fill in the parameters according to the actual data on the floor.
- **Machine Performance & OEE Analysis:** Data collected from these templates (such as downtime notes, production speed, scrap quantity) become crucial inputs for calculating **Overall Equipment Effectiveness (OEE)** and other machine performance analyses.
- **Paperless Production:** This module serves as the foundation for digital factory (smart factory) initiatives, replacing manual paper logbooks with structured, centralized digital input.

- **In-Process Quality Control (QC):** The template can be used as a QC checklist, ensuring that all critical process parameters are checked and recorded according to standards.

5. Tips & Important Notes

- Designing templates requires a deep understanding of the production process and what data is important to record for each machine or work center.
- This is a very powerful yet complex configuration module. Its management should be carried out by trained personnel such as Process Engineers, IT teams, or System Administrators.
- Before creating templates, ensure all relevant machines have been registered in the **Machine Master** module.
- Use clear and easily understood naming conventions (Field Name) for the operators on the production floor.

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