



EVANTAGE SOLUTIONS SDN BHD

# **Computerized Maintenance Management System (CMMS)**

***USER MANUAL***  
***(PM Forecast)***

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# DOCUMENT CONTROL

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**Prepared By** : Muhamad Najmi bin Badrila  
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## DOCUMENT REVISION HISTORY

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1.0	29/05/2024	Najmi	First Version of User Manual – PM Forecast

## Scenario

The scenario involves implementing a preventive maintenance forecast system in a manufacturing plant to anticipate equipment failures, optimize maintenance schedules, and reduce downtime, requiring data analysis, machine learning algorithms, and integration with existing maintenance processes. In this syllabus, we will guide you on how to check the PM Forecast for an asset.

## 1. Create PM Forecast

### What it's for

The PM forecast system aims to predict equipment failures in advance, optimize maintenance schedules, and minimize downtime in a manufacturing plant, enhancing operational efficiency and reducing maintenance costs.

### Setup the PM Forecast

- 1.1 On the left panel of the system, click on **Preventive Maintenance > Preventive Maintenance**

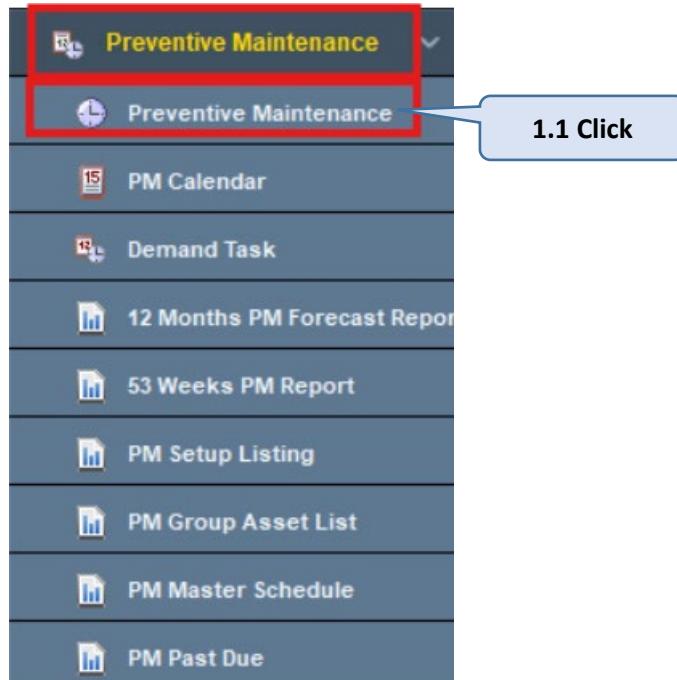
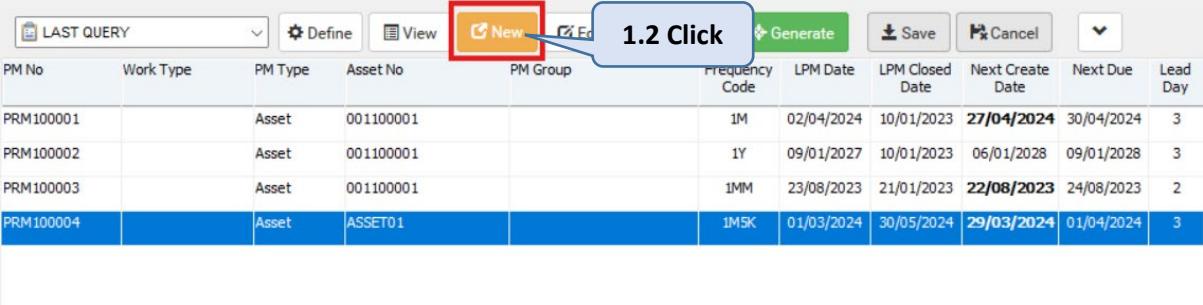


Figure 1.1

1.2 Click on **New** button to create new PM Master.


The screenshot shows a table of PM Master records. The 'New' button in the top toolbar is highlighted with a red box and a callout '1.2 Click'.

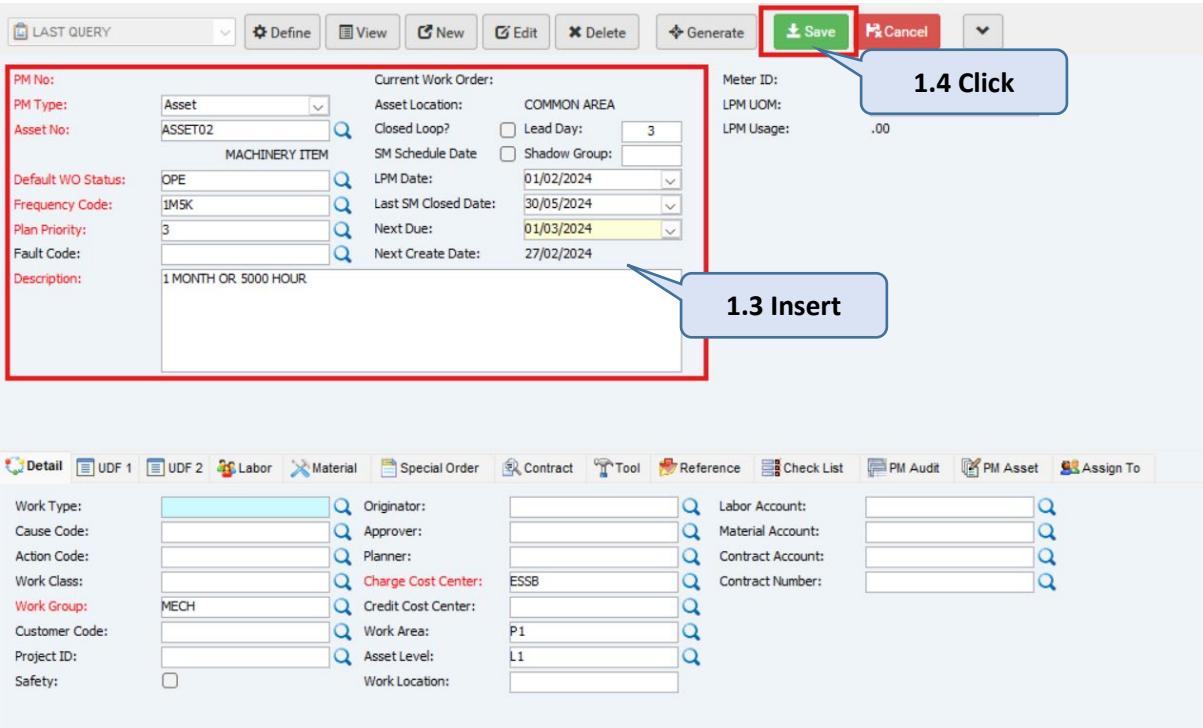
PM No	Work Type	PM Type	Asset No	PM Group	Frequency Code	LPM Date	LPM Closed Date	Next Create Date	Next Due	Lead Day
PRM100001		Asset	001100001		1M	02/04/2024	10/01/2023	27/04/2024	30/04/2024	3
PRM100002		Asset	001100001		1Y	09/01/2027	10/01/2023	06/01/2028	09/01/2028	3
PRM100003		Asset	001100001		1MM	23/08/2023	21/01/2023	22/08/2023	24/08/2023	2
PRM100004		Asset	ASSET01		1M5K	01/03/2024	30/05/2024	29/03/2024	01/04/2024	3

Figure 1.2

## 1.3 Fill in the mandatory field coloured in red:

Field	Value	Have Master File?
Asset No	: ASSET02	YES
Frequency Code	: 1M5K	YES
LPM Date	: Any date	NO

(Note: Master file are control by System Admin).

1.4 Click on **Save** button to confirm the creation of the PM.


The screenshot shows the PM Master creation screen. The 'Save' button in the top toolbar is highlighted with a red box and a callout '1.4 Click'. A callout '1.3 Insert' points to the main data entry area.

PM No:	Asset	Current Work Order:	Asset Location: COMMON AREA
PM Type:	ASSET02	Closed Loop?	<input type="checkbox"/> Lead Day: 3
Asset No:	ASSET02	SM Schedule Date:	<input type="checkbox"/> Shadow Group:
Default WO Status:	OPE	LPM Date:	01/02/2024
Frequency Code:	1M5K	Last SM Closed Date:	30/05/2024
Plan Priority:	3	Next Due:	01/03/2024
Fault Code:		Next Create Date:	27/02/2024
Description:	1 MONTH OR 5000 HOUR		

**1.3 Insert**

**1.4 Click**

Below the main form, there is a detailed list of fields:

Work Type:	Originator:	Labor Account:
Cause Code:	Approver:	Material Account:
Action Code:	Planner:	Contract Account:
Work Class:	Charge Cost Center:	Contract Number:
Work Group:	ESSB	
Customer Code:	Credit Cost Center:	
Project ID:	Work Area:	
Safety:	Asset Level:	
	Work Location:	

Figure 1.3

1.5 To check the PM Forecast, on the left panel of the system, click on **Assets > Asset Meter**



Figure 1.4

1.6 Asset Meter table view will pop up and data will retrieve. Click on **Define** button.



Figure 1.5

1.7 Fill in define query criteria:

(Note: Please refer “User Manual – Define Data Query” for detail information).

Column	Operator	Value
Asset No	like	ASSET01

1.8 Click on **Retrieve** button and records will be shortlisted based on query criteria.

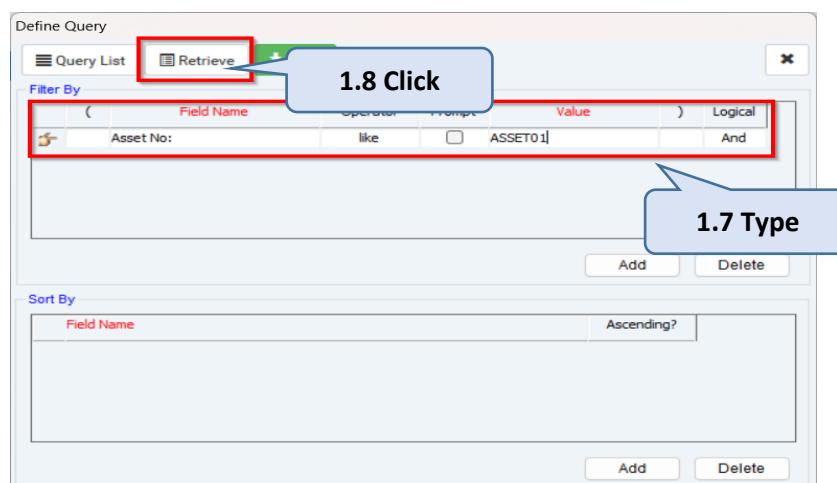
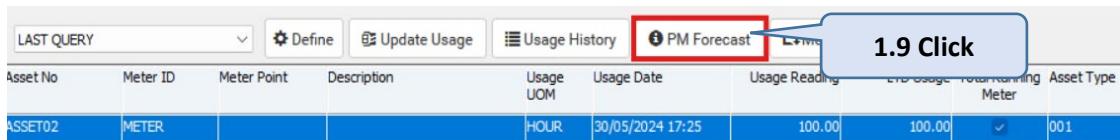


Figure 1.6

1.9 Select the record and click **PM Forecast** button. Update New Usage Reading viewers will open.

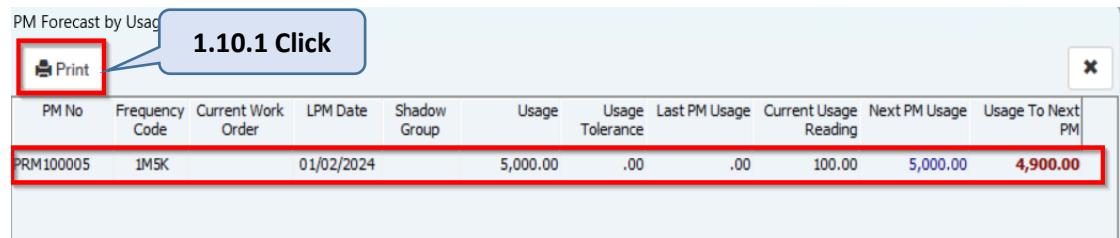


Asset No	Meter ID	Meter Point	Description	Usage UOM	Usage Date	Usage Reading	EVG Usage	Forward Reading Meter	Asset Type
ASSET02	METER			HOUR	30/05/2024 17:25	100.00	100.00	✓	001

Figure 1.7

1.10 If the user wants to print the usage history:

1.10.1 Click on **Print** button to print the usage history.



PM No	Frequency Code	Current Work Order	LPM Date	Shadow Group	Usage	Usage Tolerance	Last PM Usage	Current Usage Reading	Next PM Usage	Usage To Next PM
PRM100005	1M5K		01/02/2024		5,000.00	.00	.00	100.00	5,000.00	4,900.00

Figure 1.8

1.10.2 Click **OK** button and it will print to your local printer.

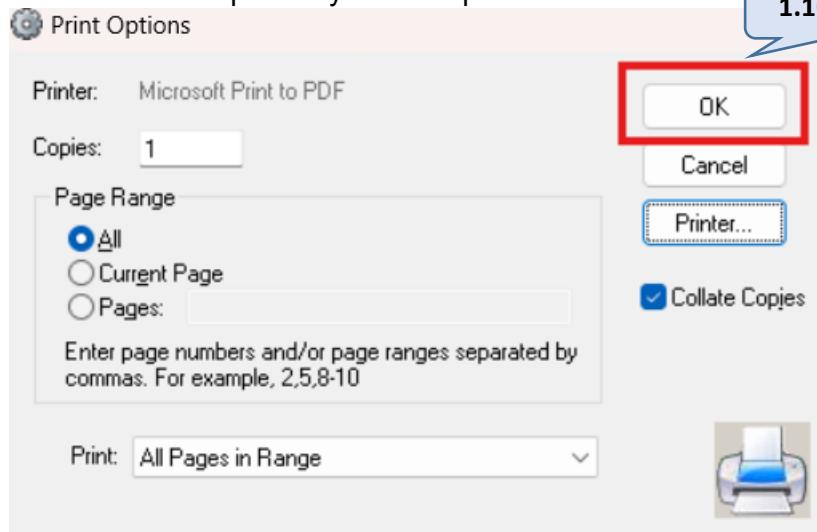
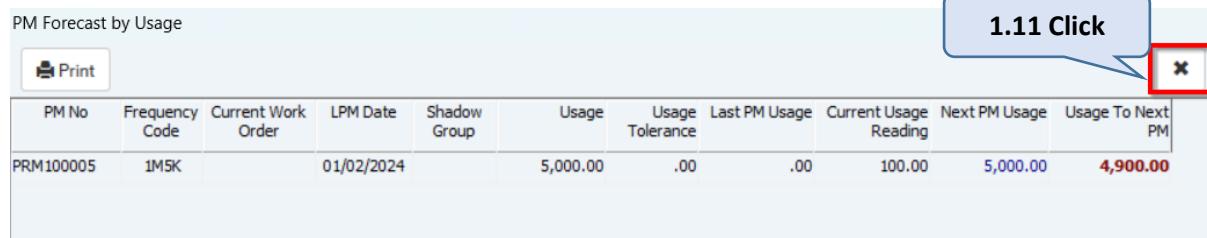


Figure 1.9

1.11 Click **X** button and the asset meter viewer will be open.



PM No	Frequency Code	Current Work Order	LPM Date	Shadow Group	Usage	Usage Tolerance	Last PM Usage	Current Usage Reading	Next PM Usage	Usage To Next PM
PRM100005	1M5K		01/02/2024		5,000.00	.00	.00	100.00	5,000.00	4,900.00

Figure 1.10