

Quick Tour Introduction MAPCON CMMS Software

(both versions)

MAPCON LITE and MAPCON PRO

Updated September 2016

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MAPCON

Thank you for using MAPCON[®] – *Easy to use. Powerful software. Priced right.*

This guide is intended to help you get started using *MAPCON* quickly. Starting on the right track will help you and your company utilize the system efficiently for years to come.

Note: This guide applies to both versions, *MAPCON Lite* and *MAPCON Pro both hosted (On-Demand) and server based (your server)*. With *server based*, your IT Dept. is responsible for the server and performing backups, and with *hosted* Mapcon Technologies will host the server. The rest of this guide will refer to everything as just MAPCON.

After using this guide, refer to the MAPCON User Manual for more detailed information.

The screens and menus used in this guide are from to Pro version so we can illustrate full functionality. We have made notes along the way to indicate what is only available in the Pro version.

If you have any questions, call your knowledgeable MAPCON Support Specialist for fast friendly service at (800) 223-4791.

Thank you for your business!



We have tried to make this manual as accurate and complete as possible. However, some errors may exist. MTI cannot accept responsibility for losses due to the use of information in this manual. If errors are discovered in the manual, written suggestions should be directed to:

> MAPCON Technical Writer Mapcon Technologies, Inc. 8191 Birchwood Ct., Ste. A Johnston, IA 50131

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INTRODUCTION

MAPCON

MAPCON is a valuable tool to help you organize your maintenance activities and reduce your maintenance costs.

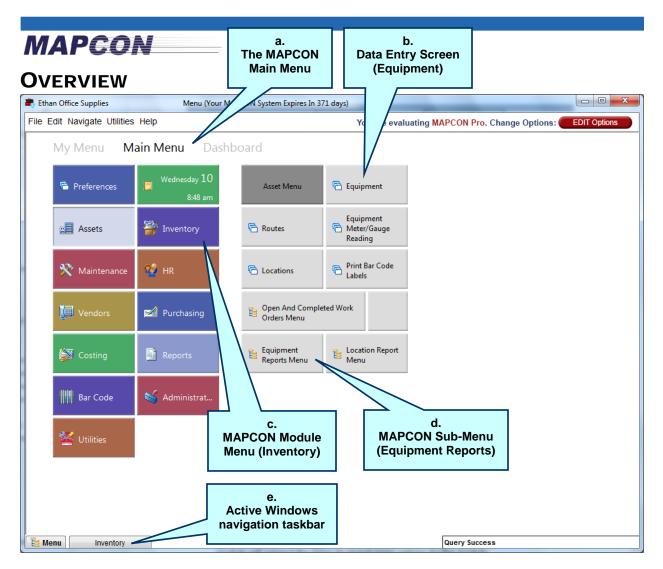
This guide will help you get MAPCON setup and running as quickly as possible.

For more information:

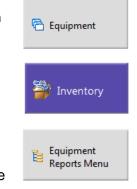
- In each field, press [F1] for more detailed information or click the Help button at the top of the window.
- > Consult the MAPCON User Manual regarding any topic.
- Our experienced professionals can help you find what you need. Contact our knowledgeable Support Specialists at 800-223-4791.

LOGGING INTO MAPCON

Once you have filled out the form for the evaluation, you will be brought to the login screen. Simply enter the username and password you picked, and then click Login.



- **a.** The MAPCON main menu area gives you a Windows 8 style Tile Menu selection of the many options in MAPCON.
- **b.** MAPCON Windows are accessed with this type of tile. This is an example of the Equipment Data Entry screen.
- **c.** Each main module has its own tile. Clicking the tile for any given module will expand the menu to reveal more options for the module on the right.
- **d.** Inside each main module are sub-menus with more categorized options. To access these menus, click on tiles that contain the following icon: This will expand the menu system to reveal the options of the sub-menu.



e. Quickly access the Main Menu or other open windows from the items on the MAPCON Active Window task bar.

f. okup Records	Equipment (30 of 33)	i. Refresh	k. New j. Record Save	q. Close
it Navigate Utili				
Report		Lookup Refresh New Save	First Previous Next Las	Close Cancel Help
oo Generator		Home Record Recor		
Eqp ID ST- 00	Parent Eqp	n.	о. р.	Billable Item
Lookup Main add	r Safety Notes/Job Step Paterials Spe		Record Cance	-
	m.	Home N	avigation Chang	es
View Work Orde	Status In Service Options			
yword TANK			verage 👻 🗌 Critical Equ	pment Copy
		Description		
EL OIL STORAG	E TANK L.)			<u> </u>
g.	h.			_
Excel Import	Report Generator			Þ
	liitie	5	Certification	Description
Department EACILI	IES All Eacil	ty Euroctions		
Department FACILIT	IES All Facil	ty Functions	r	
Customer	IES All Facil		r. Messages 07/12/	1901 To 07/12/1901
Customer #	IES All Facil	ty Functions Account	r. Messages	1901 To 07/12/1901
Customer		Account	Messages 07/12/	
Customer #	Level 1 Leve	Account		1901 To 07/12/1901

Controls

f. To search records, click the Lookup tab. Use lookup filters and sort options to modify the search criteria. Click on lookup headers to sort by any column in ascending or descending order. Double-click on a lookup row to load it in to the window.



g. Click Excel Import Import to import data from a Microsoft Excel[™] spreadsheet.



h. Click **Report Generator** Generator to start creating a report based on the data entry window.



i. Click **Refresh** Refresh to refresh the data in a lookup or on a screen.



j. Click Save Record to save changes to any record.



k. Click Add Record to create a new record



- I. Click **Help** Help to display helpful information for the field or screen.
- m. Next to many data entry fields you can click Options ¹/_E to view a list of appropriate options for that data entry field. Options may include lookups, cut, paste, copy, etc. You can also access these options by <u>right clicking</u> on the field.



n. Click **Home** to clear the window, refresh the lookup and navigate to the lookup tab.



o. Use Record Navigation First Previous Next Last to move forward, backward, go to the last record or to the first record in the lookup



p. Click **Cancel** to clear a window without saving changes.



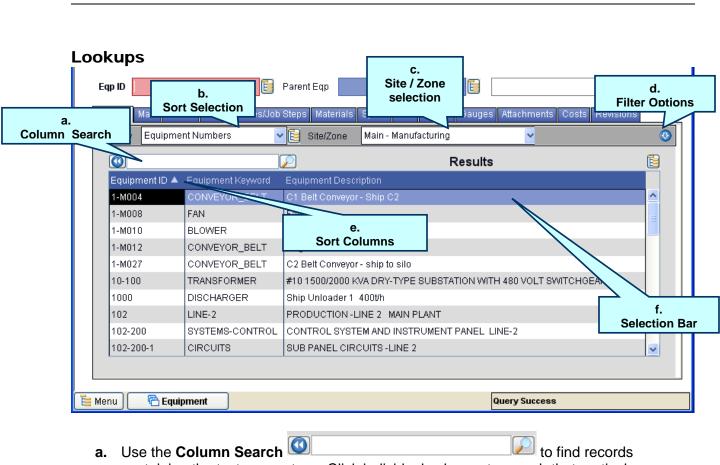
- q. Click Close Close to close the window.
- r. Messages display the status of MAPCON operations.

Query Success

Tech Tip: Hover the cursor over any icon for a brief help message. However, if the icon is not active, the help message will not appear. These icons are the same for all windows.

Ease of Use Colors

Red	Required	A record cannot be saved until each red field has data. For example:		
		Keyword BLOWER		
Dark Blue	Optional	Optional fields are additional fields that are not required. Cost Center Cost Center 57710-00		
Grey	Display Only	Read-only fields. The cursor will not land on these fields.		



- containing the text as you type. Click individual columns to search that particular column. Click *P* to find the next occurrence.
- b. Use the Sort Selection Sort By Equipment Numbers dropdown to select a different lookup view. Lookups can vary from different sorts, different columns and different types of data, such as planned work orders versus completed work orders.
- **c.** The **Site and Zone Selection** Site/Zone Main Manufacturing dropdown option provides a quick filter based on an item's zone (i.e.: Equipment) or site (i.e.: Inventory). If the user has access to only one size or zone, then this option is not displayed.
- **d.** Click 🛂 to access the lookup's **Filter Options**.

- e. Click on any column header to sort the lookup by that column. The ▲ icon indicates an ascending sort, and the ▼ icon indicates a descending sort.
- f. Double-click or press enter on the **Selection Bar** (the highlighted row) to load and view the record.

	A PC(cup Filt			Clea	b. r Filters	c. Filter Defaults	d. Add Filter Default
a. vailable Filters		nt Numbers Results with Val	✓ ☐ Site/Zone ues Entered H		anufacturing	uipment Keyword	
Equi; Mode Seria	1#	-	Value(s)		Equipment Keyword CONVEYOR_BELT e. Enter Filter	Equipment Keyword CONVEYOR_BELT f. Delete Filter	g.
	ortments Centers	10-3		~	Criteria	Default	Filters
			\square		Results		Ē
Equ	ipment ID	Equipment Keyword	 Equipment Desc 	ription			
1-M	004	CONVEYOR_BELT	C1 Belt Conveyo	r - Ship C2			
1-M	012	CONVEYOR_BELT	Magnet with belt				
1-M	027	CONVEYOR_BELT	C2 Belt Conveyo	r - ship to s	ilo		~

- a. Select from the scrollable Available Filters list.
- **b.** Click the **Clear Filters ()** icon to remove all of the filter criteria you entered.
- **c.** Use **Filter Defaults** Ito load frequently used filter criteria. Each user can create their own list of filter defaults for any lookup.
- d. Click to Add a Filter Default for the current filter criteria.
- e. Enter the filter criteria. Filter criteria can be text, dates, dropdowns, numeric or validated values as shown in this example. Lookups are always available for validated values. The right hand side will change to reflect the type of filter highlighted on the left.
- f. Click to Delete the Filter Default currently loaded (step c).
- **g.** Click (1) to close the filter window and refresh the lookup for the selected criteria.

Alternatively, click Refresh in the top toolbar to refresh the lookup while viewing the filter options.

BASIC IMPLEMENTATION GUIDELINES

MAPCON provides a logical place to organize your maintenance activities.

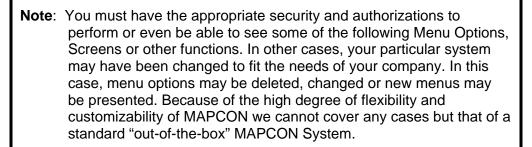
Your goal is to put the right person at the right place at the right time with the right tool to get the job done right and as efficiently as possible.

The time frame to enter data and fully implement MAPCON depends on many factors, such as the number of users to setup, how much of the system is used, what corporate standards must be integrated, and if any data can be imported from existing sources.

Some operations are up and running within a week or two of installation, while others can take up to six months or a year before seeing results. The industry standard for most facilities to realize actual cost savings from their CMMS is two years.

Having an organized, planned approach to implementing the system will save valuable time later on.

Use this guide to help you get started on the right track in MAPCON.

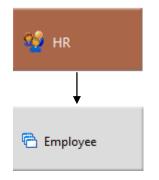


Note: Although you can get started creating work orders quickly by following this guide, most companies will want to go back and set Software Switches, create Codes, and setup Validation files before using the system more thoroughly.

The **Basic Implementation Guidelines** surrounded by the **bold border** are covered in this guide.

Employee Data Entry

MAPCON



Click the **Human Resources Menu** Click the **Employee** menu option.

Note: Employee information is accessible on the User Profile as well.

Enter an Employee number, then press [Enter].

The number can be alpha-numeric, and some sites may choose to use a "smart" numbering system.

Examples of Employee Numbers: Company assigned #, name, login ID, email address, first initial and last name, etc.

Employee ID	25-337 E Last Name Archambault E First Robert MI S
Lookup Mair	Personal Emp. Dependents Compensation Revisions
Zone D1	Main Revision 1 Active
Display Nam	e Archambault, Robert S.
Title	EMail
Crew	5 MASTER CREW #5 Craft INSP E PLANT INSPECTOR
Shift	02 Day Shift Internal Phone Home Phone
Address	Cell Phone
	City Emergency
	State Zip

Enter the employee's **First** and **Last** name, and their middle initial. Notice how the system formats the **Display Name**. The **Display Name** is displayed on employee based reports, such as the employees by craft report. Feel free to change its format, such as to put the last name first.

Assign a **Zone** to the employee. The system will add your primary zone as a default zone for the employee. Double-click the Zone field to select a different zone.

Click the options icon ⁱ to select the appropriate Crew, Craft, and Shift. Use the Add option to create new records without having to close or leave this window.

Click **Save** Record at the top of the window when finished.

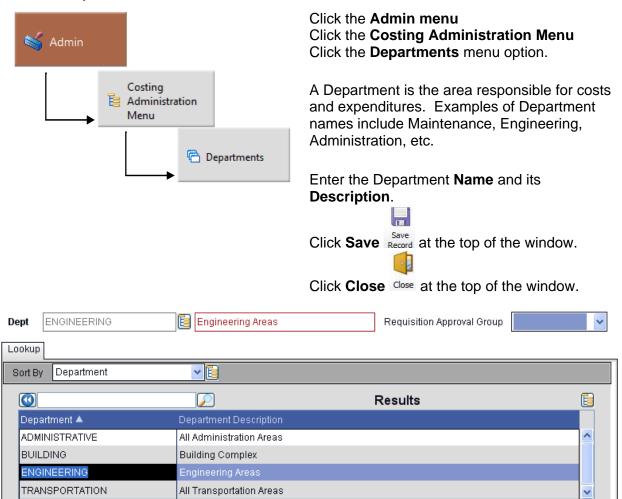
Creating Departments and Cost Centers

For a quick start, this is optional. However, it is recommended to use Cost Centers for more efficient tracking of labor, material, and purchasing costs.

Cost Centers are like budget centers that determine who pays for the completed work. Work orders can be written directly against a Cost Center. Equipment and Locations have a designated Cost Center that is updated when a work order is written against them directly.

A cost center cannot be created in MAPCON unless it is tied to a Department*, therefore, at least one Department must be created first.

* A software switch can be changed so that Departments are not required. Under System Configuration, Cost Accounting Configuration, check the box "Allow department changes on Equipment and Locations instead of cost centers". Save changes and logout and login.



Create Departments

MAPCON

MAPCON Create Cost Centers	
Admin Costing Administration Menu Cost Centers Cost Centers	Click the Administration menu Click the Cost Administration Menu Click on the Cost Centers menu option Enter the Cost Center Number. Your internal administration or accounting department will likely have numbers already defined for various areas. Enter the Cost Center Description
Cost Center 1000	n Maintenance Supplies
Department FACILITIES	unctions Cost Center Rating 10
Lookup Safety Procedures Job Steps Bill of Materials PM P Sort By Cost Centers	rocedures

0	P Re	esults	E
Cost Center 🔺	Description	Department	
1	Administration	ADMINISTRATIVE	^
10	Asset Adjustment Costs	ADMINISTRATIVE	=
10-2	Variance Costs	ADMINISTRATIVE	
10-3	Motor Pool Parts Variance Costs	TRANSPORTATION	
1000	Maintenance Supplies	FACILITIES	
1100	Write Offs	FACILITIES	
1200	Facilities	FACILITIES	~

Enter a **Department**. Click the options icon ¹/₆ to display a Lookup of available departments. Or, simply double-click the department field itself to display a lookup.

That is all the information needed to start using cost centers, however, other items can be tied to a cost center, such as PM Procedures, Safety Procedures, job steps and a bill of materials.

Click **Save** Record at the top of the window when finished.

COST CENTER SETUP IS COMPLETE.

SETTING UP EQUIPMENT AND LOCATIONS

Creating Equipment Keywords

Work Orders can be written for Equipment, Locations, Cost Centers, or Routes. Equipment records must have an equipment Keyword. Hence, the first step is to create at least one keyword.

A Keyword is simply a category used to keep similar pieces of equipment together. Reports and Lookups sort equipment based on the keyword and have keyword filters.

Examples of good keywords:

MOTOR	BELT	PUMP
MOTOR-AC	BELT-CONVEYOR	PUMP-ELECTRIC
MOTOR-DC	BELT-FAN	PUMP-WATER

Examples of bad keywords:

AC MOTOR	CONVEYOR BELT	ELECTRIC PUMP
DC MOTOR	FAN BELT	WATER PUMP

Before creating equipment keywords, create at least one **Equipment Keyword Group**. The keyword group will allow you to group together similar keywords. For instance, the keywords MOTOR-AC and MOTOR-DC could be grouped together under the keyword group MOTORS.

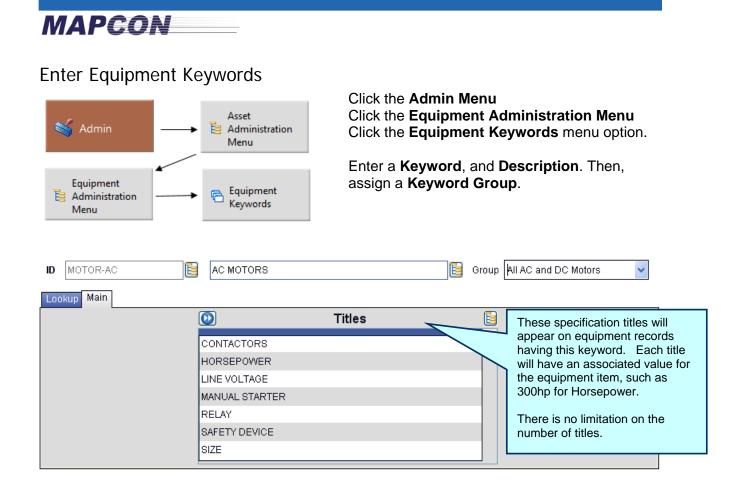
Enter Equipment Keyword Groups

S Admin	Asset Administration Menu	Click on the Admin Menu Click on Asset Administration Menu Click on the Equipment Administration Menu Click the Equipment Keyword Group menu option.	
Equipment Administration Menu	Equipment Keyword Group	Enter a Group ID , then press [Enter].	
Keyword Group	All AC and I	DC Motors	
	\square	Keyword Groups	

		Reyword Groups	U
Group ID 🔺	Description		
FACILITY	Facilities		
MOTOR	All AC and DC Motors		
PLANT	Plant Operations		
VEHICLE	Automotive		

H

Enter the Keyword Group **Description**. Click **Save** Record at the top of the window when finished.



Optional – Equipment Specifi	cation Titles (Nameplate dat	a)
Examples of Specification	Titles for the following 3 keywo	ords:
Motor Line voltage Starter Horsepower Size	Pump Valve Type Filter Type Lubrication Specs	Forklift Capacity (lbs) Load Center Lifting Height Weight
, ,	come from nameplates. For t tual number, rating, setting, ty low.	

Click **Save** Record at the top of the window when finished.

MAPC	9N				
Creating E	quipment				
	Assets		Click the Assets I Click the Equipm		ion.
	Ļ		Only the Red (req before the record		
	🗎 Equipment				
Eqp ID 10-100		Parent Eqp			
Lookup Main Ven		b Steps Materials Spo Manufacturing	ecs PMs Meters Gauge Status In Service		osts Revisions
	FORMER	ALL ELECTRICAL TR		Сору	Critical Equipment
#10 1500/2000 K	VA DRY-TYPE SUBSTA	Des TION WITH 480 VOLT S	Cription MITCHGEAR		×
Cost Center 4000			Engineering		
Department BUILI	DING		Building Complex		
Location					
Layout STANDARD	Level 1 MAIN	Level 2 FACILITIES	Level 3	Level 4	Level 5

Enter an **Eqp ID** (Equipment Number) and then press [Enter]. Most facilities already have asset numbers established. Some use a "smart" numbering system while others just use the Manufacturer's number. If you require assistance defining your equipment numbering scheme, contact MAPCON Support.

Alternative– Just press [Enter] and the system will generate a new key which will be displayed after saving the record. Automatic key generation is not the default configuration for Equipment. However, the system can be configured to automatically generate numeric keys.

Optional: Enter the **Parent Eqp** (Parent Equipment). This is the equipment number containing the current equipment record, or the next piece of equipment **UP** in the hierarchy.

Tech Tip: When first entering equipment, it is helpful to build the hierarchy from the top down. The Parent Eqp is blank for equipment in the first level. The second sub component will have the first level equipment number as its Parent Eqp, the third will have the second, and so on. All costs related to the equipment, will roll up the hierarchy.



The default **Status** is *In-Service*. Select a different status from the drop down. Create your own Equipment Status codes from the *Equipment Administration Menu*.

Zone - Use the Options icon ¹ to select the Zone for this equipment. The system assigns the user's primary zone as the default. Note: Zones are only available in the Proversion

Enter a **Keyword**. Click ¹ and select Lookup to display a selection list of available keywords, or simply double-click the field for the lookup.

Optional: Assign an equipment **Rating** based on a scale of 1-10, with 10 being the most important. This rating is used in work order scheduling, and to help prioritize work. Equipment ratings can be modified from the *Maintenance Administration Menu*.

Enter a **Description** for the equipment, which is not required but highly recommended.

- Optional: Enter a **Cost Center** either from the Options icon ¹ or by double-clicking on the field
- Optional: The **Location** of the equipment can only be selected using the Lookup button. Locations need to be created first before using them here.

Although much more information can be provided, this is all that is required for a quick start.

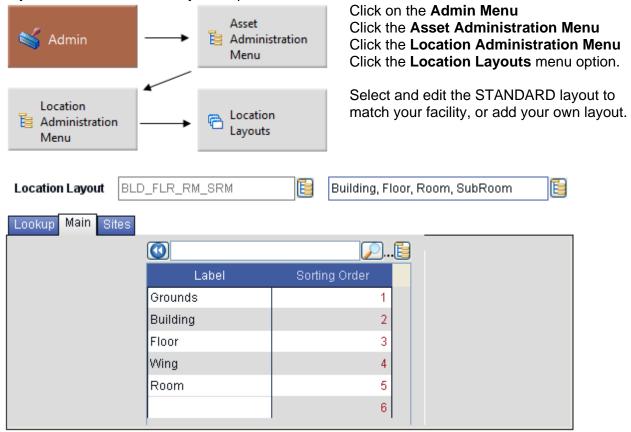
Click **Save** Record at the top of the window when finished.

EQUIPMENT SETUP IS COMPLETE.

Creating Location Layouts

Note: Location layouts and hierarchies are only available in the Pro version

Location layouts are used to label the different levels of a location hierarchy, such as building, floor and room. The default system labels are **Level 1**, **Level 2**, **Level 3**, **Level 4** and **Level 5**. However, these can be changed, and additional layouts can be added. Also, layouts can go beyond five levels to as many as required.



To create a new layout, type a new name for your Layout in the **Location Layout** field and press Enter. Then, enter a description for your layout. In the **Layout Labels**, enter the labels you want to display when entering in locations using this layout.

Click **Save** Record at the top of the window when finished.

Note: To use a Location Layout, you must assign the layouts to each site that requires it.

Note: If there are multiple layout types, the system will provide an additional filter option to select the desired layout type for location based lookups.

MAPCO	N	
Creating Loc	ation Keywords	
🥰 Admin	Asset Administration Menu	Click the Admin Menu Click the Asset Administration Menu Click the Location Administration Menu Click the Location Keywords menu option.
Location Administration Menu	Cocation Keywords	All locations must have a Keyword, so create at least one keyword.
ID ROOM	Room	
Lookup Main Sites		
		🔎 Titles 📴
	Width	
	Length	
	Carpet	
	Windows	
	Fire Bottles	
	Exits	
	Capacity	

Like equipment keywords, location keywords categorize similar locations.

ation keywords:
Board Room
Shop
Production Floor
Dock

Enter in the keyword **ID** and then its description.

In the **Titles** table enter in common attribute titles you want to track for this type of location. These are similar to equipment keyword specification titles. Some examples: **Floor Covering**, **Wall Covering**, **Length**, or **Width**.

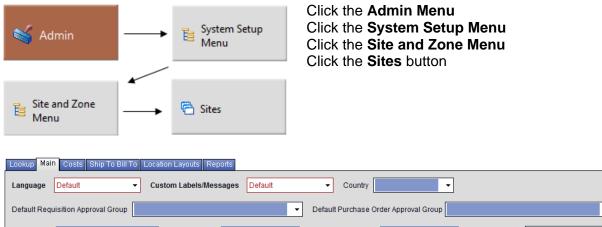
Click **Save** Record at the top of the window when finished.



Creating Sites and Zones

A site is an entity that is physically distant from other parts of the company. A zone is a smaller physical entity within the site.

Note: zones are only available in the Pro version



3 Host	POP3 User	POP3 Password 📔 Defau	ult Zone
		Zones	
ld		Description	
01	Manufacturing		
02	Operations		
03	Misc.(Maintenance)		
04	Facilities		

Fill in all the required fields.

Zones can easily be added from the sites screen by entering the zone ID and description.

Click **Save** Record at the top of the window when finished. Exit MAPCON and reenter in order to see your changes.

MAP	CON			
Creating	Locations			
	Assets		Asset Menu .ocations menu opt	ion.
Layout STANDARD		RODUCTION LINE-2		Level 5
Lookup Main	Safety Procs Job Steps Bill N	Materiais PM Proc	s Equipment Attachments	Costs Purchases
Zone 01	Manufacturing		Location Levels a	are based on the layout
Keyword FAC			AREAS	Open Work Orders
Rating Critic	al 🔽 Square Feet	0.0 Square F	eet In Hierarchy	
PRO	DDUCTION SECTION -LINE 2	Descript WIASSEMBLY	ion	
Cost Center 3	200	Production Fabrication		
Department P	RODUCTION	All Production Areas		
Layout	BUILDING	FLOOR	WING	ROOM
BUILDING	KING-HOSP		WEST	OPER-ROOM2
			The headers change whe	en the layout changes.

The first thing to decide when entering a new location is what **Layout** you want to use. The layout you choose will potentially change the labels across the screen to something more related to the location structure you will create, such as Building, Floor and Room. Note: Location layouts and hierarchies are only available in the Pro version

BUILDING	FLOOR	WING	ROOM	
Procs Job Steps Bi	II Materials Specs	PM Procs Equipm	nent Attachments (Costs
yout 🗠	Site/Zone 🛛	lain - Manufacturing	~)
t yout out	MIN ava	ilable layout choices	s are based on the lay	
	BUILDING Procs Job Steps Bi yout t yout	BUILDING FLOOR Procs Job Steps Bill Materials Specs yout t yout t yout vout vout vout vout vout vout vout v	BUILDING FLOOR WING	BUILDING FLOOR WING ROOM

Location hierarchies must be created from the top (Parent) down. In this example, select the Building Layout for the **Layout Type** and enter BUILDING_A for the Building, which is the top level for this layout. It is best to use short descriptions of the actual physical locations if possible.

Layout	BUILDING	FLOOR	WING	ROOM
BUILDING	BUILDING_A			

Zone - Use the Options icon to select the Zone for this location. The system will assign the user's primary zone as a default. Note: Zones are only available in the Proversion

Enter a **Keyword**. Use the Options icon ¹ and select Lookup to display a list of available keywords, or simply double-click the keyword field to open the lookup.

Optional: Give the location a **Rating** based on a scale of 1-10, with 10 being the most important.

Enter a **Description** of the location, which is not required but highly recommended.

Optional: Enter a **Cost Center** either from the Options icon ¹ or by double clicking on the field

Although much more information can be provided, this is all that is required for a quick start.

Click **Save** Record then click **Home** Home when finished. Now, let's create the next level:

H

MAPCO	N			
Layout	BUILDING	FLOOR	WING	ROOM
BUILDING				Add
.ookup Main Safe	ty Procs Job Steps Bil	l Materials Specs	PM Procs Equipmen	t Attachments Costs Purch
Sort By Building L			ain - Facilities	
0	To creat	te the next Level	(FLOOR)	To create the next Level (FLOOR)
BUILDING A		uble-click and load double-click and lo		Second: Click the Add button.
Layout	BUILDING	FLOOR	WING	ROOM
	BUILDING_A			
0	ne floor, complete t description, keywo			reate the next Level (FLOOR)
	Save	Lookup		Enter the second level designation. In kample, enter 1 for the FLOOR.
	Save Record then click el is added, a new	K Home Home .	is	
created.	,,			Λ
Layout	BUILDING	FLOOR	WING 🥆	ROOM
BUILDING	BUILDING_A	1		To create the next Level (WING)
Lookup Main Safe	ty Procs Job ? To cre	eate the next Le	vel (WING)	Third: Enter the third level designation. In this example, enter WEST for the WING.
Sort By Building L	.ayout First:	Double-click and lo	ad the parent.	Add E
		J	Re	Second: Click the button.
BUILDING 🔺	FLOOR	WING	R00	M
BUILDING_A BUILDING_A	1			
BOILDING_X	 			
			10/INIO	BOOM
1			WING	ROOM
Layout	BUILDING	FLOOR		
Layout BUILDING			WEST	Ē
BUILDING	BUILDING_A	1 the location reco	ord by	
BUILDING	BUILDING_A	1 the location reco	ord by	

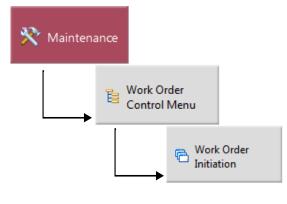
Continue the next step and add a Room to your location.

You have now created a four level location hierarchy, **BUILDING_A – 1 – West – Room**. Having multiple levels for your physical locations provides a method of charging work to the building as a whole, the first floor, the west wing, or to a specific room. Like the equipment hierarchy, costs charged at the bottom will "roll up" to the top.

LOCATION SETUP IS COMPLETE.

MAPCONPROCESS A WORK ORDER

Initiate a Work Order



Click the **Maintenance Menu** Click the **Work Order Control Menu** Click the **Work Order Initiation** menu option.

Only the red, required fields must be entered before saving a work order.

Click on the **Main** tab to generate the next available **WO** number, indicated by "**NEWKEY**" displayed in the field. The actual work order number is displayed after the record is saved.

WO NEWKEY 📴 Type Repair 🗸 🗸	Status Initiated Priority
Lookup Main Other Information Attachments	
Submitted By Brock Prusha	Date Submitted 02/08/2012
Equipment	
Equipment Hierarchy	View Open Work Orders Zone
🖸 Work /	Problem Description
<	▲ ▼ >
Approve Work Order	Approval Date

Change **Type** from **Repair** to another type by using the drop down selection box. The Status will start as **Initiated** and cannot be changed. The status is controlled programmatically: The potential status codes are: Planned (requires planned labor), Scheduled (requires a date scheduled), On Hold (requires the Advanced Inventory Module), Completed, or Canceled.

Note: You can create your own work order types from Maintenance Administration.

Select the **Priority**. Typically, <u>Lower</u> numbers have a <u>higher</u> priority than higher numbers. You can create your own priority codes from *Maintenance Administration*. Associate the number of days a work order can stay unfinished for each priority. Assigning the priority will change the **date required** for work order completion.



Note: The user's name will appear in the **Submitted By** field. The **Date Submitted** will default to today's date as the starting date of the work order. These can be changed if needed.

Equipment	
Cost Center	
Equipment	
Location	
Equipment Move	
Route	

Next, select the type of asset to for your work order.

Typically, **Routes** are generated by the PM system but a route work order can be created manually. Note: Routes are only available in the Advanced Maintenance module.

Use the **Equipment Move** option to move equipment out of service and remove it from the equipment hierarchy, and replace it with another piece of equipment.

Enter an **Equipment #** in the required red field next to the drop down. Or, double-click the field for a Lookup of available equipment. The system will display the appropriate lookup for the type of asset selected: A location lookup for locations, a cost center lookup for cost centers, etc.

Notice: When an equipment or location value is entered, the equipment hierarchy or the location hierarchy is displayed.

Enter the **Work / Problem Description** describing the nature of the problem.

To approve the work order, click Approve Work Order and the system will enter the user's
name and the current date into the appropriate fields. Once approved, the user that approved
the work order can click Remove Approval to remove their approval. The user's group or user profile determines whether or not they can approve a work order. If a user does not have the authority to approve work orders, then these buttons are not displayed.
All other information is optional. This is all that is needed for a quick start to create a work order
Save solution of the solution

Click **Save** Record at the top of the window to create this work order. The work order number will appear in the bottom right hand corner Key (000004) Created.

Additional options are available to automatically print the work order when its first created. Set these options on the *Maintenance Configuration* window.



Click Close on the top menu bar to close the window.

MAPCON	
Complete a Work Order	
X Maintenance	Click the Maintenance Menu Click the Work Order Control Menu Click the Work Order Update and Completion menu option.
Work Order Control Menu Work Order	Enter the WO # created from the previous page or use the lookup to select a work order by
WO # 001140 Type Safety Work Order Status On Hold	double-clicking on it.
Lookup Main Work Description Labor/Material Timecards Non Stock Purchas	ing Meters/Gauges Attachments Costs Revisions
Equipment 710	Description A/C CHILLER UNIT (MAIN ROOF) #1
Equipment Location	Work Order Was Printed
Equipment Location Date Planned 12/18/2014 Planned By Ralph Sampson	Work Order Was Printed Date Required 12/25/2014
Date Planned 12/18/2014 Planned By Ralph Sampson	Date Required 12/25/2014
Date Planned 12/18/2014 Planned By Ralph Sampson Completion Date 07/12/1901 Completed By	Date Required 12/25/2014
Date Planned 12/18/2014 Planned By Ralph Sampson Completion Date 07/12/1901 Completed By Create Follow-Up Work Order(s)	Date Required 12/25/2014
Date Planned 12/18/2014 Planned By Ralph Sampson Completion Date 07/12/1901 Completed By Create Follow-Up Work Order(s)	Date Required 12/25/2014
Date Planned 12/18/2014 Planned By Ralph Sampson Completion Date 07/12/1901 Completed By Create Follow-Up Work Order(s) Failure Code Failure Description Cause Code	Date Required 12/25/2014
Date Planned 12/18/2014 Planned By Ralph Sampson Completion Date 07/12/1901 Completed By Create Follow-Up Work Order(s) Failure Code Failure Description Cause Code Failure Code Failure Description Cause Code	Date Required 12/25/2014 Project Image: Comparison of the second sec
Date Planned 12/18/2014 Planned By Ralph Sampson Completion Date 07/12/1901 Completed By Create Follow-Up Work Order(s) Image: Code Failure Code Failure Code Failure Description	Date Required 12/25/2014

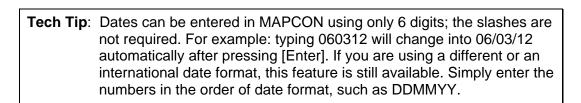
To complete a work order, simply enter the **Completion Date** manually, or click to use the calendar popup, and select the current date.

Depending on the Maintenance Configuration settings, the system can automatically set the **Completed By** field to the user's name. Or, the user can double-click the field to add a different

name, or click add their own.

_ _ _





Note: MAPCON considers a work order completed once it has a completion date. After saving the work order, the status will change to **Finished**.

In the **Comments** field, fill in what was done to correct this situation. All other information is optional.

Tech Tip: To track downtime, use the **Out of Service** and **Return to Service** date and time fields. MAPCON will calculate the difference between these values and automatically determine the **Actual Downtime**.

MAPCON

Click Record at the top of the window to update and complete the work order.

The system will prompt to verify the completion process. If you click yes, the system will ask if the work order should be sent to history. Once a work order is in history, it cannot be changed. Whether or not these prompts are displayed can be configured from the *Maintenance Configuration* window.

Click Close on the top menu bar to close the window.

WORK ORDER PROCESS IS COMPLETE.

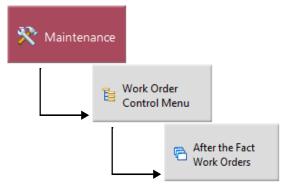


After the Fact (One Step) Work Orders

Note: After the Fact Work Orders are available in the Advanced Maintenance Module

Use an After the Fact Work Order to track work that has already been completed but needs to be recorded for work, labor and material history. An after the fact work order is unique in two ways:

- Only one screen is used to do everything. You can create and close a new work order in a few clicks and keystrokes in seconds!
- The Completion Date is a red, required field that must be entered before the work order can be saved.



Click the Maintenance Menu Click the Work Order Control Menu Click the After the Fact Work Orders menu option.

Only the red, required fields must be entered before saving a work order.

Click on any tab or into any field to generate the next available **WO#**, indicated by "**NEWKEY**" displayed in the field. The actual work order number is displayed when saved.

WO # NEWKEY Type After th	e Fact Statu	us Completed Zone	01		
Main Timecards Material Meters/G	auges Charge Codes C	osts			
Date Completed 02/08/2012	By Brock Prusha			Defaults to Completed St	atus.
Equipment v 102-300-1B				ds Completion Date (curren	t
Location PLANT*PRODUCTION*LI	NE-2*REPO-ROOM		date) and Comb	ieted BV (current user).	
Equipment Hierarchy	Out of Service	🛅 Time			
■ ● 102-300 REFRIGERATION ■ ● 102-300-1 MOTOR FOF	Return to Service	📅 Time	Actual Downtime	Hours	
	Failure		Action		
	P	roblem		E	
Bad Leak from a cracked pipe.				×	
<				<u>></u>	
	Co	omments			
Replaced pipe.					

Enter the user that completed the work, or click $\stackrel{\text{le}}{\vdash}$ for a list of employee names.

Select the asset type (Equipment, Location, etc) then enter the equipment #, Location, etc. Or double-click the field for a lookup.

Enter **Problem Description** to describe the problem.

Enter **Comments** to describe what was done to correct the situation.

All other information is optional.

Click Save at the top of the window to initiate and complete the work order.

YOUR WORK ORDER HAS NOW BEEN INITIATED AND COMPLETED ALL IN ONE STEP FROM ONE SCREEN!

PREVENTIVE MAINTENANCE

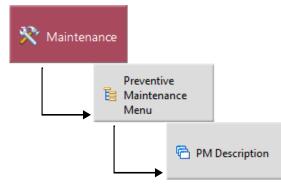
There are three steps involved in generating preventive maintenance work orders:

- 1. Create a **PM Description** that describes the work to perform, including any required labor and materials.
- Add assets (Equipment, Locations, Cost Centers) to the PM Description and create PM Frequencies to depict how often the task is performed for that asset.
- 3. **Generate** the PM Work Orders.

Many facilities will generate their PM work orders on a Friday for the next week to plan ahead and ensure all parts are available and to schedule the workers.

Note: The terms PM Description and PM Procedure will be used interchangeably throughout the system and this documentation.

1. Setup PM Descriptions



Click the **Maintenance Menu** Click the **Preventive Maintenance Menu**. Click the **PM Description** menu option.

To create a new PM Procedure, click in the **Title** field to generate the next available **PM Procedure #**, indicated by "**NEWKEY**" displayed in the field. The actual PM Procedure number is displayed when saved.

PM Desc # PM0005 📴 Title OS	SHA INSPECTION PREP (SEMI-ANNUALLY)	Ē
Lookup Main Equipment/Locations/	Cost Centers/Routes Labor Materials Cycles Attachments	Revisions
Work Order Status	▼ Type Inspection Preventive ▶ ▼ Priority 4	Status Approved
Allow Duplicate Work Orders	Generate Work Orders On the Basis Of Date Last Done	Advance # Days 0
	Task	E
INSPECT AND MAKE ANY PREPARA	Task TIONS NECESSARY TO HAVE ALL EQUIPMENT MEET OSHA OSHA SPEC SHEETS POSTED OR CONTACT TEAM LEADER	
INSPECT AND MAKE ANY PREPARA	TIONS NECESSARY TO HAVE ALL EQUIPMENT MEET OSHA	

Enter a brief description for the nature of the work in the **Title** field. Many facilities prefer to start with how often the PM is performed, such as Daily Inspection, Monthly Lubrication, or Annual Overhaul.

The Basics

Select the **Work Order Status**. The work order will have this status when generated. Note: status is only available in Pro

- Basic PMs will have the **Initiated** status.
- The **Planned** or **Scheduled** status requires at least one Crew/Craft/Shift assigned on the **Labor** tab with at least one estimated **Worker** for one **Hour** of estimated work.
- The **Scheduled** status will set the work order's date scheduled to the generation date.

Select the work order **Type**. Edit the standard work order types or create your own from *Maintenance Administration*. A work order type must have the *PM Work Order* designation to appear here.

Select the **Priority**. Priority codes are used to determine the overall work order rating and to assist in scheduling.

The PM **Status** will either be *Approved* or *Not Approved*. Only approved PM Procedures are generated. Once approved, any change to the PM Description requires another approval and a reason for the change. The system retains each revision made on the PM Description: the user that made the revision, when they made it, and why.

Check the box to **Allow Duplicate Work Orders** if meter or gauge readings should generate more than one PM work order each time a reading is entered that triggers the PM. For example, if PMs are not generated until Friday, and a user enters a meter reading on Tuesday that triggers the PM, and another user enters a higher reading on Thursday, then two PM work orders will generate, one for each event that triggered it. Note: option available in Pro only

Tech Tip: Elapsed Time and Meter frequencies can be combined, where one or the other will trigger the next PM work order. For example: change the oil every 6 months or 3000 miles. For this scenario, do not check this box. Note: option available in Pro only

Check the box **Generate Orders on the Basis of Date Last Done** if a completion date on the PM work order is required before generating the next PM work order. If **not** checked (called **Date Last Due**), the next PM work order will generate regardless if the previous work order was completed.

MAPCON

Tech Tip: To keep a balanced PM schedule, such as generating some monthly PMs early in the month and others later in the month, do not check this box.

Enter the **Advance # of Days** if more time is required for ordering materials and ensuring they arrive on time. Also, use this option to generate PMs early for fill work. Setting this field will <u>not</u> adjust the work order's **Required Date**. For example, the Required Date is set to the frequency's due date when the work order is generated, or to the generation date. If the worker has 7 days to complete the PM, then enter 7 advanced days. The PM work order will be generated 7 days in advance of its due date but the required date will remain the same. Note: Advanced Days is only available in the Pro version

Enter a description of the work to be performed in the **Task** field. This text will appear in the work order's Work / Problem Description area. Some organizations list each PM task here. However, if planning or scheduling labor, use the **Job Steps** on the Labor tab for specific tasks performed by different trades. In this case, only a brief task overview should be entered here.

The **Revision** field is read-only and tracks the number of approved changes to a PM procedure. You can review the history of changes by clicking on the **Revisions** tab.

Click Approve PM to approve the PM Description. Click Remove Approval to remove your approval. If the user's profile or group profile does not have the authorization to approve PM Procedures, then these buttons will not be displayed Note: option available in Pro only

There is a lot more information that can be added to a PM procedure:

- The Labor tab defines the Crew, Craft and Shift labor, detailing the job steps each craft will perform. The number of workers needed and for how many hours, although optional for initiated work orders, is necessary for planning and scheduling.
- The Materials tab defines the required materials. With the Advanced Inventory Module, the system will create planned Issue ticket for the work order when its generated.
- **Cycles** are a handy way to eliminate extra work order paper waste. For example, if an Annual PM includes the same steps as a Quarterly, then only generate a quarterly PM three times and don't generate the quarterly when the annual is due. The cycles using the PM Description are displayed on the Cycles tab. Note: PM Cycles are only available in the Proversion
- **Sites** will allow this PM description to be used for more than one Site for more consistent procedural instructions between the Sites. If only one site is available, then the site tab is not displayed.



• Attachments are documents associated with the procedure, such as images of the work area/equipment, MSDS form sheets, calibration forms, etc. Assign attachments on the Attachments tab.

PM Desc # PM0003 Image: Title OIL CHANGE (TRANSPORTATION) Lookup Main Equipment/Locations/Cost Centers/Routes Labor Materials Cycles Attachments Revisions					
PM List	\odot	Equipment/Location	is/Cost Centers/Routes For PM 🛛 📔		
Franciaa	Туре	Eqp/Loc/Rt/CC	Description		
Frequencies	Equipment	370-T	1/2 TON CHEVY PKUP - TRANSPORTATIO		
	Equipment	550-T	2005 CHEVY SUBURBAN -TRANSPORTA		
	Equipment	CONV-1-M	MAIN MOTER FOR CONV-1		
	~				
	Cost Center Equipment Location Route				

Adding Assets to the PM

At least one entity must be added to the PM Description for it to generate.

Select the **Type** of asset that requires the PM Definition. Manually enter the asset or double click in the **Eqp/Loc/Rt/CC** column for a lookup of equipment, locations, routes, or cost centers. The system will show the valid lookup based on the selected **Type**.

On the left hand side of the window, click Frequencies (shown below).



2. Setup PM Frequencies

PM Desc # PM	0003 📔 Title OIL	CHANGE (TRANSPORTATION)	E
Lookup Main E	Equipment/Locations/C	cost Centers/Routes Labor Materials Cycles	Attachments Revisions
PM List	Type Equipment	Eqp/Loc/Rt/CC 102	
Frequencies	Serial # 654867HV	/ Model#	
	Desc PRODUCTION	N-LINE 2 MAIN PLANT	Extended Definition
	Elapsed Time/Meters Freq None None> Daily Weekly Monthly	52 Week Gauges	If equipment has meters, then they will be displayed here to assign PM intervals
Choose the frequency first. Select None if the PM is meter based only.	Quarterly SemiAnnually Annually	Remember: Time ba	
PM Desc # PM	0003 📔 Title OIL	CHANGE (TRANSI	
Lookup Main E	Equipment/Locations/C	cost Centers/Routes Labor Materials Cycles	Attachments Revisions
PM List	Type Equipment	Eqp/Loc/Rt/CC CONV-1-M	
Frequencies	Serial #	Model#	
	Desc MAIN MOTER		Extended Definition
	Elapsed Time/Meters		
	Freq Monthly	Mult 1 Generate	e Wos On Basis of Date Last Done E Delete
	Day 🔽 🔽	Lst Due 03/13/2010	plicate Work Orders 🛛 Uses Default Labor Meters
		L -+ D	Jnits Curr Total LastPMTot Interval
		Last Gen 10/19/2010 1 HO	URS 2550.00 2550.00 2600.00
		Adv Days 5	

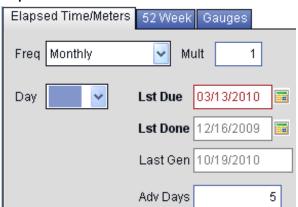
Frequency types include:

Elapsed Time - Daily, Weekly, Monthly, Quarterly, Semi-Annually, Annually
Meters - PMs triggered by a meter reading after a certain interval
52 Week Schedule - irregular frequencies, such as Monthly but not in the winter
Gauges - PMs triggered by a Gauge reading outside of a set tolerance range

Click **Click Procedures**, Add asset specific **Safety Procedures**, **Attachments** and **Labor** requirements.

When finished, click Record at the top of the window.

Elapsed Time



Select the **Frequency** first, then the other fields will appear.

The **Multiplier** is used to set a longer delay between generations. For example, to generate a PM every 3 Months, enter **3** for the multiplier. For every 6 weeks, set the frequency to Weekly and enter 6 for the multiplier.

Last Due – Date Last Due. Use this date to set the next generation date. The PM system will *go forward* from this date the amount of time set in the Frequency and the Multiplier.

Ex. 1: to have a Monthly PM generate on 07/07/12, set the Last Due date to 06/07/12. Ex. 2: to have a Quarterly PM generate on 12/01/12, set the Last Due date to 09/01/12.

This is read-only if the checkbox for <u>Generate WOs on Basis of Date Last Done</u> is **checked**. In that case, use the Last Done date field to trigger the PM.

Last Done – Date Last Done. Use this date to set the next generation date. The PM system will *go forward* from this date the amount of time set in the Frequency and the Multiplier.

Ex 1: to have a Monthly PM generate on 07/07/12, set the Last Done date to 06/07/12. Ex. 2: to have a Quarterly PM generate on 12/01/12, set the Last Done date to 09/01/12.

This field is updated when the generated work order is finished. The **Completion Date** on the Work Order Update and Completion window indicates when the PM was finished. That completion date for the PM work order appears here. The system is then ready to start calculating when the next work order will generate.

Caution: If the work order is left open and is never completed, then the PM will not generate again. To avoid this, use Date Last Due.

This field is read-only if the checkbox for <u>Generate WOs On Basis of Date Last Done</u> is **not checked**. In that case, use the Last Due date field to trigger the PM.

Select the **Day** of the Month, Week, etc. when the PM should generate. For example, select **1** to always generate on the first day of the month.

Adv Days – Advance # of Days. This is set on the Main page of the PM Description, but can be over-written here. Note: Advanced Days is only available in the Pro version

Meters

\bigcirc		Meters					
M#	Units	Curr Total	LastPMTot	Interval			
1	HOURS	2550.00	2550.00	2600.00			

Meters only appear if the equipment has meters assigned to it. Then, PM work orders can be generated based on the meter reading(s).

M# The meter name as defined on the equipment (i.e.: 1, 2, odometer, etc).

Units The unit of measurement (Hours, Cycles, Miles, etc.)

Curr Total The Current Total reading on the meter.

Last PM Total. The reading on the meter from the last PM.

Interval This is the number of units that must pass before the next PM is generated. For example, every 3000 Miles for an oil change, or every 500 Hours for a filter change.

Elaps	ed Time/Meters	52 Week	Ga	uges
	52 Week S	chedule		Occurs 5
Week	Date	Generate		Occurs 5
1	01/01/2010		<u>^</u>	Day MON 🗸 Advance Days 5
2	01/08/2010			
3	01/15/2010			Last Week Next Week
4	01/22/2010			
5	01/29/2010	 Image: A start of the start of		Last Due Last Gen
6	02/05/2010			Last Done
7	02/12/2010		~	

52 Week Schedule

Irregular frequencies can be set using a calendar showing the 52 weeks of the year. For instance, Snow and Ice Removal is a regular task in the winter but not in the summer months.

Click the ^{52 Week} tab, then click the **Generate** column to indicate which weeks of the year the PM will generate.

For a faster setup, use the **Occurs** field to quickly set every 2 weeks or every 3 weeks, and then uncheck those weeks that do not apply.

Set **Advance Days** to have the PM generated early. This is set on the Main page of the PM Description, but can be over-written here.

Set the **Day** of the week to balance the schedule, preventing all weeklies from being due on the same day.

Gauges

Note: Meters and Gauges are only available in the Pro version

Elapsed Time	/Meters 52 Week G	auges					
Allow [Duplicate Work Order	ε					
Last Due		\bigcirc		Gauges			
		G#	Units	Last Reading	Lower Limit	Upper Limit	
Last Done		1	PASSES	73.00			
Last Gen	Default Labor						

If the equipment has one or more gauges assigned to it, then a PM work order can be generated based on the gauge reading(s).

Gauge readings are based on a tolerance range, such as the acceptable lower and upper limits of a hot water pipe's temperature. When the gauge reading is entered outside of its preset limits, the system will prompt the user to immediately generate a PM work order. If one is not immediately generated, it will be the next time PMs are generated.

Click the Gauges tab.

G# The gauge name as defined on the equipment (i.e.: 1, 2, pipe gauge, etc).

Units The unit of measurement (PSI, Temperature, voltage).

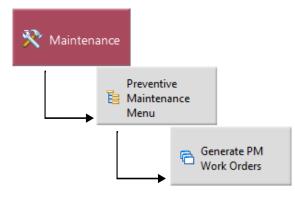
Last Reading The last time this gauge was updated.

Lower Limit Enter the lowest value the gauge reading can be and be within tolerance.

Upper Limit Enter the highest value the gauge reading can be and be within tolerance.

Allow Duplicate Work Orders Generates a PM work order for each event when a gauge reading was entered outside of the tolerance range.

3. Generate PM Work Orders



PM Work Orders can be generated after the PM Descriptions have been created and their Frequencies defined.

Click the **Maintenance menu** Click the **Preventive Maintenance Menu** Click the **Generate PM Work Orders** menu option.

Select View & Order

Generate Cenerate	
Select PM Generation Method	
All Pms 🗸	1
·	
All Pms	
Elapsed Time And Meters Pms	
52 Week Schedule	
Gauges Only	
Selective PMs	
Delective F Ma	

Select the type of frequencies that should be generated. Select **All PMs** to generate for all frequencies, or choose individual frequencies.

The **Selective PMs** option allows you to choose a combination of a specific Equipment or Location or Cost Center, and a specific PM attached to it.

Tech Tip: If machinery is already off-line, choose the Selective PMs option to generate all of the PMs due in the near future to help eliminate down time.

Click to advance to the next step.

MAPCON Select Reports to Print

Generate ?	
💿 🛛 🛛 Reports To Print	
Reports To Print	Print
Print Outstanding WOs For PMs Generated	
Print PM WOs Generated (Form)	
Print PM WOs Generated (List)	

The **Print** column indicates which reports will print after generation. All reports are turned on by default. Clicking on the checkbox will unselect a specific report.

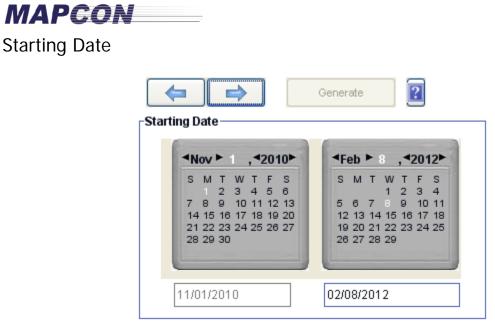
Click to advance to the next step.

Select for Site and Zone



Select the Zone requiring PM Generation. Or, check the site box and select the Site requiring PM Generation.

Click the Options icon then choose Lookup for a list of valid zones or sites. Or simply double-click the field.

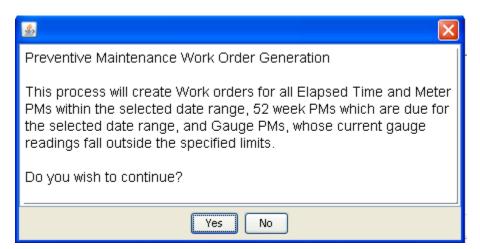


To prevent re-generating PM work orders, the **Starting Date** is a read-only field (left hand side). After generation, the **Ending Date** (right hand side) plus one day will become the next Starting Date. For example, if the Ending Date is 06/15/12, the next Starting Date will be 06/16/12.

Note: The starting dates for each zone can be modified from the *Maintenance Configuration* window.

The **Ending Date** (right hand side) is how far out in advance the PM system should look for Frequencies that are due. Most users will generate on a Friday for all of the PMs that are due for the next week. In this example, the Starting Date would be on a Saturday, and the Ending Date would be on a Friday.

Click **Yes** when the system displays:



Ready to Process

	🖸 Read	dy To Process				
	You are now ready to execute the period execute the process.					
	The process will run using the following information that you have entered:					
	<			>		
\mathbf{D}	Selected Category	Values				
2		Values Site Zone	Starting Date	Ending Date		
	Selected Category		Starting Date	Ending Date 02/08/2012		
Print Ou	Selected Category Reports To Print	Site Zone	_	_		
Print Ou Print PM	Selected Category Reports To Print Itstanding WOs For PMs Generated	Site Zone	_	_		

PM Work orders.

The generation process will always double check to see if there are any Past Due Work Orders. PM Work Orders are past due if they have not been generated and the current date is beyond their due date. This can happen when setting up new PM frequencies, or if PMs have not been generated regularly.

If there are any Past Due orders, the following lookup is displayed:

0	1	Ge	enerate	These F	Past Due	Orders			?
	Eqp/Loc/CC/Rt	Pm Proc	Pm Type	Due Date	Trigger	Title	Zone	Site	
×.	000010	PM0059	52	06/11/200	752 Week	Perodic Power check	01	MAIN	

Highlight the desired Past Due PMs to generate (if any), then click the Select icon *solution* to continue.



When the program is finished generating, a message similar to the following will appear:

🛓 🔀
PM Work Orders have been generated. Past Due Work Orders 378 Outstanding Work Orders 13 Duplicate Work Orders 2
Generated Work Orders 5
Ok

Click Ok.



Click the **Close** icon **Close** to close the window.

View the generated work orders using the one of the Work Order data entry windows. Or, review the reports generated by the PM Generation process.

PM WORK ORDER GENERATION IS NOW COMPLETE!



GLOSSARY

Definitions of words as they apply to MAPCON

Asset - Equipment, Location or Cost Center.

Equipment - can be a machine or a major tool.

Hierarchy – An organization of equipment, such as sub-assemblies. Smaller equipment can be part of a larger hierarchy, and allows costs to "roll-up" the hierarchy for more accurate cost tracking of the parent asset. Note: hierarchies are only available in the Pro version Note: Equipment and Location Hierarchies are only available in the Pro version.

Keywords - A way of organizing and grouping like items together.

Location - can be a building or place that provides a particular service or is used for a particular industry. As a 'place', it doesn't even need to be a building – a golf course, school grounds, or parking lot could be locations as well.

Route - is a collection of equipment, locations, or cost centers that is organized as a list of *stops*. When a work order is performed against the route, the same maintenance function is performed against each entity (each stop) on the list. Note: Routes are only available in the Pro version Note: Routes are only available in the Pro version.

Cost Center - is an entity whose primary purpose is to keep track the cost of work done, including material, labor, and direct purchases. Like a route, a cost center contains other entities such as equipment or locations – each equipment or location is assigned a cost center. Some organizations may wish to define cost centers as divisions. For example, Research & Development might be one cost center, the Maintenance Department another cost center. Other organizations may treat the cost center as an account code, where the account code describes the activity taking place. Most facilities already have cost center numbers defined by their internal administration or accounting department.

Site – is a way to separate multiple facilities which are related through a parent company. They may be located in different cities, states, or countries.

Zone – is a way to separate areas within a Site. They can physical or logical. Physical: Each area or department is considered a zone, such as Administration, Maintenance, or Shipping/Receiving. Likewise, each building may be a zone. Logical: three similar assembly lines may each have their own zone. For example, a process may start in one area for cutting, continue on to another area for painting, and finish in another area for assembly. This whole process may be considered one zone.

Note: Zones are only available in the Pro version.



Work Request - a process where problems with equipment and facilities were noticed and reported to maintenance workers.

Work Order – a process where maintenance tasks are assigned to an asset, and may include planning material and scheduling labor. Preventive maintenance work orders are setup to generate on a repeated basis because the tasks are the same each time. The work order not only organizes current activities, but also provides a history of what was done and how long it took.

OTHER MAPCON SERVICES

SUPPORT

Mapcon Technologies, Inc. provides world-class customer service to all of our valuable clients. Your annual Support agreement provides unlimited phone calls, e-mail support, and free upgrades as they are released.

MAPCON USERS GROUP (MUG)

The Mapcon Users Group meets once a year to share success stories of how they have modified the system to make life better, and show how you can do it too! The annual MUG Conference also offers basic training and other fun activities. Many MAPCON users feel like they become part of our extended family after enjoying the MUG experience. Visit our website at <u>www.mapcon.com</u> and click the **Users Group** link for more details.

TRAINING

The key to any successful facility is proper training. We offer three different training options, to fit your needs!

Train at Our Facility

Training at our HQ in Des Moines, Iowa is a great way to learn CMMS Software! The MAPCON Corporate Training Center has computer terminals for each attendee so they can easily follow and participate in class activity.

On-Site User Training

MAPCON provides comprehensive and effective end-user CMMS training at your location, customized to fit your needs. On-Site CMMS Software training is usually scheduled for a 2-3 day time period. On-Site User Training has the additional valuable benefit of direct training with your CMMS system and data and focuses directly on your maintenance operation.

Train Online

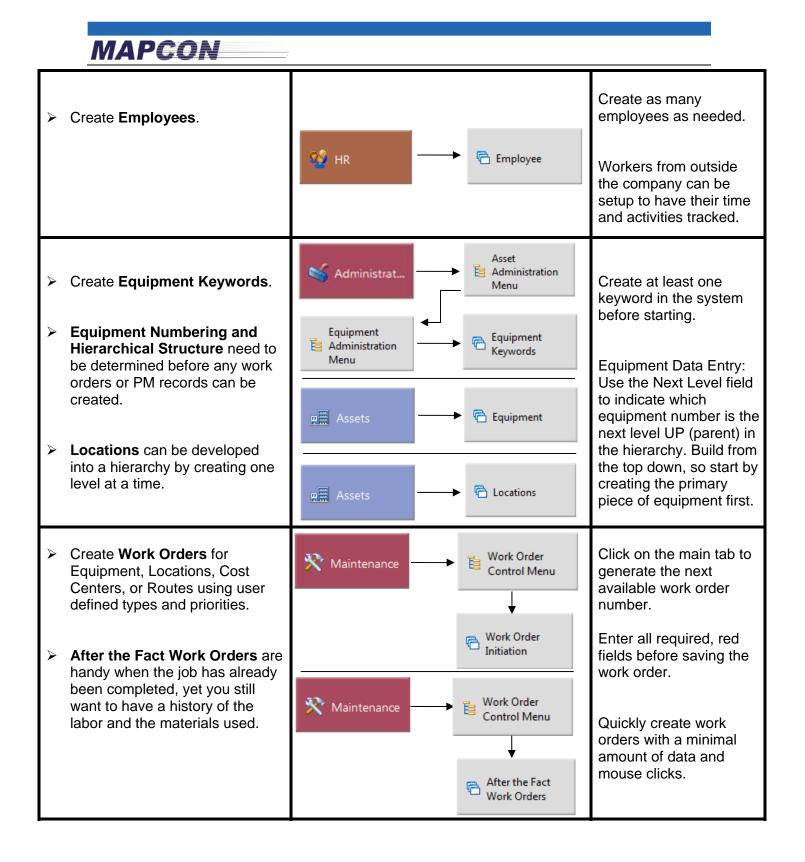
Training on MAPCON's CMMS Software using online classes is the ideal way to save money and time! MAPCON utilizes GoToTraining® for its online classes. GoToTraining allows us to host online classes with up to 25 people so you can do more and travel less.

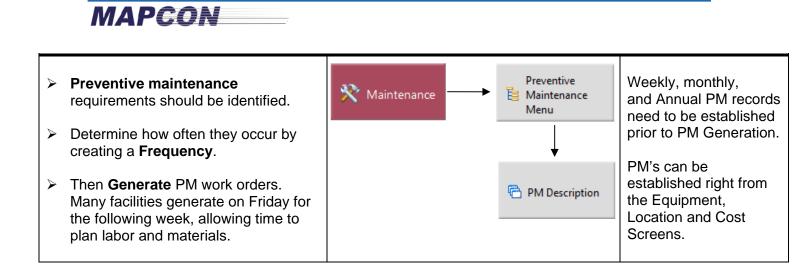
Training schedules vary with demand. For more information on training schedules, see our web site at <u>www.MAPCON.com</u>, or contact us at 800-223-4791.

CUSTOM PROGRAMMING

Using our custom programming services, you can integrate MAPCON with any other accounting or purchasing software system, schedule automatic data transfers, or build complex reports. For more details, call 1-800-223-4791.

MAPCON **Quick Reference** WHERE TO START TOPIC SPECIAL NOTES Most Software Switches ≤ Admin can be set or changed Software Configuration at any time in the future. switches need to be set. However, it is very important that the **Cost** Discuss how each MAPCON Accounting switches module will be used and how are set first before day-to-day procedures are System starting. integrated into MAPCON. 🗧 Configuration Menu Codes and Validations are used Create Cost Centers to throughout the system to provide track the cost of Labor. Admin Lookups, to ensure data integrity, Material, Purchases and and to provide searching and Services. sorting options. Some validations can be built as Create at least one you enter data, such as cost Craft to start with. Asset Administration Menu Administration centers. However, a thorough Crews and Shifts are Menu review of all validations is highly optional. recommended. Maintenance Inventory 🗧 Administration Administration Menu Menu Human Resources Ъ Administration Menu Attachment Purchasing 🔋 Administration 📒 Administration Menu Menu Costing System E Configuration Administration Fa Menu Menu System Setup Menu







Easy to use. Powerful software. Priced right.





Mapcon Technologies, Inc. 8191 Birchwood Ct., Ste A Johnston, Iowa 50131 Phone (800) 223-4791 Fax (515) 331-3373 <u>www.mapcon.com</u> sales@mapcon.com