# MAINTENANCE TEAM AND THEIR ROLES & RESPONSIBILITIES WITH CMMS

## BY: RICKY SMITH, CMRP, CMRT, CRL







"A CMMS is an Organization's Navigational Tool which ensures Equipment Reliability is meeting the requirements of Production/Operations"









"A CMMS/EAM is an Investment"... ...which provides visibility of assets so management can make the right decisions at the right time at the lowest cost.

"All the best companies in the world have a fully functional CMMS"

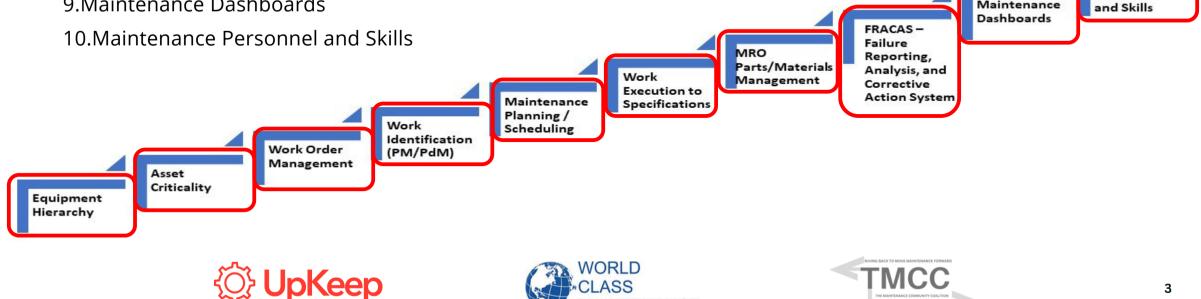






## **CMMS** Functions

- **1.Equipment Hierarchy**
- 2.Asset Criticality
- 3.Work Order Management
- 4.Work Identification (PM / PdM)
- 5. Maintenance Planning and Scheduling
- 6.Work Execution to Specifications
- 7.MRO Parts and Material Management
- 8.Failure Reporting, Analysis, and Corrective Actions
- 9.Maintenance Dashboards



NTENANCE

Maintenance Personnel

Maintenance

upkeep.org

## Why Companies do not use their CMMS to it's Full Capabilities?

1.No one has ever seen a fully integrated Maintenance Software

2.No one understands the value or impact of the CMMS

3.CMMS is too difficult to use

4. Standing work orders are used in place of work orders charge to specific assets

5. Companies pick and choose what they want in a CMMS without a

focus on Maintenance Best Practices

"World Class Maintenance enables World Class Production"

4.No alignment with Process Maps

5.Reactive Maintenance dominates (everyday is different)

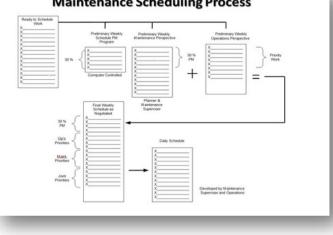
6.Lack of Discipline

Metric	Typical	World Class
Maintenance cost/replacement asset value		
Maintenance cost must include labor (including overtime), materials, contract maintenance, and capital replacements, and maintenance (replacing worn-out assets because they were never properly maintained)	3.5–9%	2.0-3.0%
Maintenance materials cost/replacement asset value		
Maintenance materials cost must include material in storeroom stock plus material in other locations (maintenance shop, plant floor, etc.)	1.0-3.5%	0.25-0.75%





Process Control Tools		Predictive Tools
DCS	CMMS/EAM	Lubrication Analysis
PLCs Data Historians	Asset Management     Work Order Management	Vibration Analysis
SCADA ?	Planning & Scheduling     MRO Materials	? Motor Circuit Analysis
Inspections	<ul><li>Procurement</li><li>Tasks and Jobs</li></ul>	Non-Destructive Testing
Visual Inspections Maintenance Rounds	Personnel & Trades	RCM Analysis Results
Operator Rounds		Recommended Tasks
	FIGURE 16.11.	





#### **Maintenance Scheduling Process**

## Proactive Maintenance "Roles and Responsibilities"

Position Tasks	Maint. Supervisor	Maint.t. Manager r		tores Stores Managementnt	Production Supervisor T	Maint. Iechech	CMMS Adm.	Plant Mgr.
CMMS Management	R	Α	R	R	I	С	R	1
Work ID (PM/PdM/OpCare)	Α	С	R		R	R	С	
Planning	С	Α	R	С			С	
Scheduling	С	R	R	R	С		С	С
Scheduling Meeting	R	С	R	С	R		С	
Work Execution	R	Α		R		R	С	
Work Order Close Out	R	Α	R	С	С	С	С	
Maintenance KPIs / Reporting	R	Α	R	R	I	II.	С	1
	Responsibility Accountable "t Consulted "two Informed"one	he B <u>uck stop</u> o-wa <u>ý comm</u> -way <u>commu</u>						
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# Managing a CMMS -Roles and Responsibilities

Maintenance Leaders at all levels must understand their roles and responsibilities to ensure success of any CMMS -this aligns everyone to enable the CMMS to be effective in Managing the "Maintenance Function"

Position 🗪 Tasks	Maint. Supervisor	Maint. Manager	Maint. Planner	Stores Management	Production Supervisor	Maint. Tech	CMMS Adm.	Plant Mgr.		
CMMS Management	R	Α	R	R	1	С	R	1		
Work ID (PM/PdM/OpCare)	Α	с	R		R	R	с			
Planning	с	Α	R	с			С			
Scheduling	с	R	R	R	с		с	с		
Scheduling Meeting	R	С	R	с	R		С			
Work Execution	R	Α		R		R	с			
Work Order Close Out	R	Α	R	с	с	С	С			
Maintenance KPIs / Reporting	R	Α	R	R	I.	Т	с	I.		
	Responsibility Accountable Consulted Informed	Consulted "two-way communication" (in the Loop)								





### Maintenance Manager - Strategic

The goal of a Maintenance Manager? To ensure that all maintenance personnel are aligned and executing the

company's proactive work to standard so that the company meets its business goals 100% of the time.

"A great Maintenance Manager sees the relationship of poor performance and the lack of good maintenance routines." "Poor performance always leads to the lack of maintenance routines or poor execution of existing routines." -Rick Mullen, Global Reliability Leader, AB-InBev

Mr. Mullen's statements drive home the fact that a Maintenance Manager holds the key to a plant, site, or a mine's success. Their knowledge of their site's maintenance strategies and how they are executed, as well as how effective they are, is key to a successful Maintenance Manager. It is also the difference between high performing and poor performing operations.

The Maintenance Manager is accountable for Maintenance activities.

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Work ID (PM/PdM/OpCare)	Α	с	R		R	R	с	
Planning	С	Α	R	с			С	
Scheduling	с	R	R	R	с		с	с
Scheduling Meeting	R	С	R	с	R		С	
Work Execution	R	Α		R		R	с	
Work Order Close Out	R	Α	R	с	с	С	С	
Maintenance KPIs / Reporting	R	Α	R	R	1	Т	с	L
	Responsibility Accountable Consulted Informed	<u>"the Doe</u> "the Bud "two-wa <u>"one-wa</u>						







#### Maintenance Supervisor - Tactical

- Ensures everyone know what work they are to accomplish that day and his/her expectations
- Speaks coordinates with Production Supervisor to ensure no problems meeting the maintenance schedule for the
- day Visits job sites to ensure no problems exist that will cause problems with the execution of the
- maintenanceschedule Coordinates any movement of technicians if a crisis arises such as a breakdown or equipment is not ready as
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Position	Maint. Supervisor	Maint. Manager	Maint. Planner	Stores Management	Production Supervisor	Maint. Tech	CMMS Adm.	Plant Mgr.
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Work Order Close Out	R	Α	R	с	с	С	С	
Maintenance KPIs / Reporting	R	Α	R	R	I	Т	с	L.
	Responsibility Accountable Consulted Informed							







#### Maintenance Planner/Scheduler

1.Focuses on Future work only

2.Maintenance Planner plans all work orders which are proactive –reactive work is handled by Maintenance Supervisor 3.Maintenance Planner plans each work order by identifying parts/materials, estimate labor hours, shutdown

requirements, safety and environmental requirements

4.Ensures the Maintenance Dashboard is updated

Compliance			mpliance		urately				Cost
100%	40%		100%		47%		78%		12%
Position 🗪 Tasks	Maint. Supervisor	Maint. Manager	Maint. Planner	Stores Management	Production Supervisor	Maint. Tech	CMMS Adm.	Plant Mgr.	
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Scheduling Meeting	R	С	R	С	R		С		
Work Execution	R	Α		R		R	с		
Work Order Close Out	R	Α	R	с	с	С	С		
Maintenance KPIs / Reporting	R	Α	R	R	I.	Т	с	I.	
	Responsibility Accountable Consulted Informed	"the Doo "the Bu "two-wa "one-wa		]					







### Maintenance Technician

1.A proactive maintenance technician is a highly trained professional who is an expert in his or her skills area, has knowledge of other skills areas, including safety and production, and has a desire to learn more.

2. This professional knows and can implement a failure-modes driven maintenance strategy for any piece of equipment.

3.A proactive maintenance technician uses knowledge and experience to ensure the maintenance process is optimized by making constructive recommendations to management concerning improvement areas.

4.To ensure success, a proactive maintenance technician is proactive in everything he or she does.

5. This person constantly reviews information to ensure procedures are accurate and issues are resolved quickly and does what is required to ensure the work is repeatable.

6.Is a professional that leads by example and takes responsibility for training new employees on how to be a proactive and effective maintenance technician.

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Planning	С	Α	R	с			С	
Scheduling	с	R	R	R	с		с	с
Scheduling Meeting	R	С	R	с	R		С	
Work Execution	R	Α		R		R	С	
Work Order Close Out	R	Α	R	с	с	С	С	
Maintenance KPIs / Reporting	R	Α	с	1				
	Responsibility Accountable Consulted Informed	"the Doe "the Bud "two-wa "one-wa						







### Maintenance Storeroom Manager

1.Maintenance storeroom manager / supervisor / attendant ensures the right part is in stock and ready for issue to Maintenance or Operations

2.Ensure parts are managed based on:

- •Min / Max
- •Reorder Point
- •Safety stock
- •Stored to specifications
- Stockouts

3.Storeroom should be secured 24/7

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Scheduling Meeting	R	С	R	с	R		С		
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Work Order Close Out	R	Α	R	с	С	С	С		
Maintenance KPIs / Reporting	R	R A R R I I							
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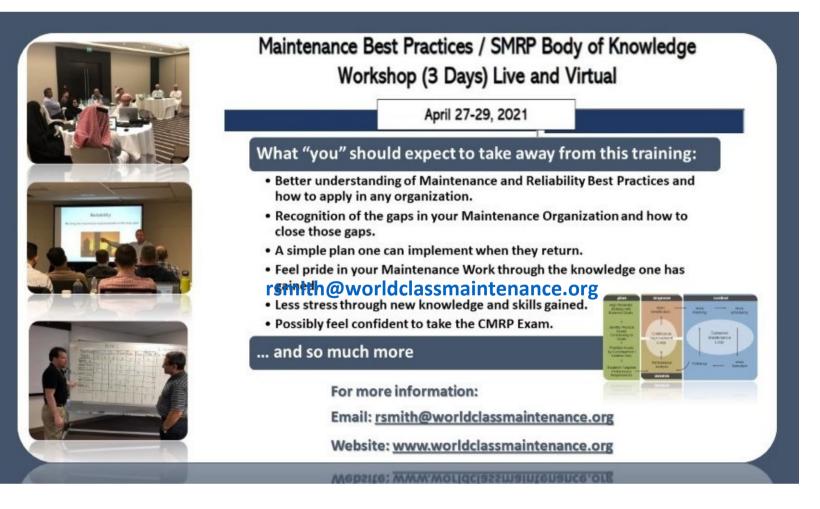






# Questions

#### Join us for Maintenance Best Practices April 27-29











#### #1 Software for Maintenance & Reliability Teams

UpKeep is a service-first company that builds software designed to make maintenance easier for technicians and managers everywhere. Reduce downtime up to 18% by switching over to a preventative maintenance solution!

#### www.upkeep.com

#### **Our Products**



**Mobile-first maintenance management and collaboration across all location, assets, and teams** "With nearly 340 different machines in our work environment, it's an impossible task to manually assign and track PM's. With UpKeep we can schedule regular maintenance without overlapping tasks with other critical jobs."

 $\star \star \star \star \star$  Paul D, Health and Safety Coordinator



An end-to-end solution for remote condition-based monitoring

Connected and secure IoT sensors for real-time remote condition asset monitoring



#### Integrated & Centralized Data Ecosystem for World Class Asset Operations

The only purpose built Asset Data Platform. Asset Focused ELT Solution for advanced analytics and integrated, real-time asset data.

# TIMCC

#### The Maintenance Community Coalition was founded on the belief that working together will benefit everyone within our community

Committed to helping each other thrive in our individual professional journeys by sharing resources and expertise, granting scholarships, hosting events, and unlocking knowledge – always at no cost.

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