

PREVENTIVE MAINTENANCE BEST PRACTICES

Learn PM Best Practices through classroom lecture, exercises, and group Discussion

March 9-11, 2021

Southern WesleyanUniversity Clemson, South Carolina Virtual or Live

FOR MORE INFORMATION SEND YOU REQUEST TO:

rsmith@worldclassmaintenance.org

Prepared by: Ricky Smith World Class Maintenance



In Partnership With: UpKeep The Maintenance Community

ABOUT THIS WORKSHOP

This workshop is activity based and hands-on, with focus on the "Best Practices in Preventive Maintenance".

Best Practices in Preventive Maintenance

The Fundamentals

- All PMs are focused on specific "Failure Modes" 1.
 - All PM Procedures should have the following: Step by Step Instructions (initial each step)
 - Specifications Space available for extra information
 - Condition as found Condition as left
- Recommendation to changes to Procedure 3. When PM Work Order is given to Maintenance Techs the
- following should be attached: Equipment Failure history since last PM Executed 4. Post the following metric in Maintenance Shop on a line graph PM Labor Hours vs EM/Urgent Labor Hours
 - An Example of the Hawthorne Effect for Behavior Change in PM using this metric



WHO SHOULD ATTEND?

- > Maintenance Planners
- > Maintenance Supervisors
- > Senior Maintenance Technicians (influential techs)
- > Maintenance Managers
- > Maintenance Engineers
- > Reliability Engineers
- > TPM Coordinators / SME



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Knowledge is the foundational requirement in all skills.

- Share Known PM Best Practices Definition
- of Preventive Maintenance How PM
- Compliance can be misleading
- Learn how write an effective PM Procedure
- Create a Continuous Improvement Process for PM
- Learn how to know if a PM or PM Program is effective or not
- Share Known Maintenance and Reliability Best Practices
- Describe the objective of PM
- Execute hands-on PM exercises in a group environment
- Learn how to measure if a PM function is effective
- How to engage Production / Operators to execute simple PMs
- Create a Proactive PM Workflow model to manage asset and process reliability
- Create and understand Leading and Lagging PM Metrics
- How to transition from current state to a proactive PM function
- Define how to measure and manage change
- Learn to implement a new way of thinking by and for plant staff
- Create a Master Plan, with timeline for PM implementation

...and so much more!

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DAY 1 TRAINING SCHEDULE

Introduction to PM Best Practices

- Instructor and Attendee Introductions
- Your Current PM Program 2 Ups / 2 Downs per attendee
- Expectations from each attendee and instructor
- Course Overview: Objectives, Daily Training Schedule Why
- PM is not working in most organizations
- Proactive Maintenance Workflow Model/Process
- World Class Maintenance Case Study (Alumax/Alcoa Mt Holly John Day PE)
- Definition of key terms:
 - Maintenance
 - Reliability
 - Operator Care
 - Preventive Maintenance
 - Predictive Maintenance
 - Maintenance Planning
 - Maintenance Scheduling
 - Work Execution
 - Work Order Close Out
- Creation of the a Vision Statement, Mission Statement, and Guiding Principles for Successful Preventive Maintenance What are the
- expectations from PM?
- Failure Modes and mitigation strategies
- Developing and Managing an Effective PM Program PM
- Workflow Process
- Steps required to develop and manage an effective PM Program Best
- Practice PM Procedures Example
- PM Roles and Responsibilities (RACI)
- Managing a PM Program
- "Walk by" PMs
- PM Leading and Lagging KPIs and KPI Dashboards Group
- and Individual Exercises:
 - Create a PM Dashboard
 - One thing each person learned today



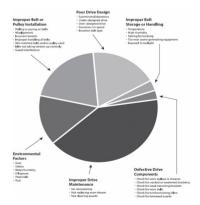


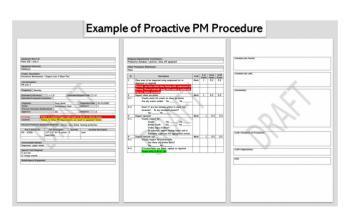
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DAY 2 TRAINING SCHEDULE

Maintenance Planning

- Review of Day 1
- PM and the PF Curve
- Maintenance Planning definition, requirements, and expectations
- Proactive Maintenance Planning and Scheduling Process and why it is important for a successful PM Program
- PM Vision Statement, Mission Statement, and Guiding Principles Operator
- Care and PM
- Repeatable Procedure definition and how to create Why
- Repeatable Procedures are critical
- Examples of Repeatable procedures for PM Parts
- requirements
- Definition of Kitting and how to establish a kitting process Parts
- Ordered from Vendor vs Storeroom Stock
- Security of Scheduled Work Parts/Material
- Group and Individual Exercises:
 - Create PM Vision Statement, Mission Statement, and Guiding Principles Create a
 - PM Repeatable Procedure for a given example asset
 - Create a Process Map for PM
 - Create a RACI Chart (Roles and Responsibilities for PM) Create
 - a PM Procedure for a specific asset at your site







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DAY 3 TRAINING SCHEDULE

Maintenance Planning and Scheduling Alignment

- What's one thing you learned so far?
- Benefits of a PM Optimization
- PM Optimization example
- PM Optimization Process
- Benefits of a PM Optimization Process
- Expectations of a PM Optimization Process
- Which asset or assets to perform a a PM Optimization (PMO)
- Principles for performing a PMO on a specific asset
- Example of a PMO and the results
- Steps to success in the PMO Process
- Best practices / lessons learned in PM Optimization
- Group and Individual Exercises:
 - PM Best Practices Exam PM
 - Optimization Process
 - Project Plan for when you return
- Final Exam
- Course Close Out / Evaluation









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Such a fun, engaging, and informative course! I learned so much in only a few days.

- Caitlyn Young, CMRP

HOW TO ENROLL:

Complete the "Attendee Registration Form" on the next page and email your completed registration page to <u>rsmith@worldclassmaintenance.org</u>.

October 19-21, 2020 Southern Wesleyan University Clemson, South Carolina Virtual or Live Cost: \$750 per person. If you are signing up for two or more people, the cost is \$650 per person.

Go to worldclassmaintenance.org for more information. You'll also find free, downloadable resources at worldclassmaintenance.org with no email required.

Connect with us on social media: Email:<u>rsmith@worldclassmaintenance.org</u> LinkedIn:<u>Ricky_Smith, CMRP, CMRT, CRL</u> Twitter: <u>@RickySmithCMRP</u> Facebook:<u>World Class Maintenance Inc.</u>



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412 Simms School Road Central, SC 29630 864-722-3086

Workshop Registration

Workshop: Preventive Maintenance Best Practices plus PMO

Dates: October 19-21, 2020

Time: 8:30 - 4:30 ET

Location: LIVE: Southern Wesleyan University – Central, SC

or Virtual via Internet

Cost: \$750.00 USD

Attendee Name:
Position:
Company Name:
<u>Credit Card</u>
Name on Card:
Credit Card Number:
Expiration Date:
CVV: (numbers on back of card)
Purchase Order (Terms Net 10)
Company Name:
Address:

Check: ____ Make checks out to "World Class Maintenance"

Questions? <u>Rsmith@worldclassmaintenance.org</u>