

# WHY TO ATTEND A MAINTENANCE PLANNING AND SCHEDULING WORKSHOP

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# Why to attend a Maintenance Planning and Scheduling Workshop?

**How to Know if your Maintenance Planning and Scheduling is Effective or Not and what to do about it?**  
By Ricky Smith CMRP

Maintenance Planning and Scheduling is the one function which makes the most impact in any Maintenance Department resulting in increased "Wrench-Time".

Wrench time (sometimes also referred to as tool time) is a metric that shows how much time maintenance techs spend with a tool in their hand, performing actual maintenance work.

Many organizations struggle with increasing "Wrench-Time" through either ineffective Maintenance Planning and Scheduling or not having a Planning and Scheduling Function.

World Class Wrench Time is 55-65%; most companies' Wrench Time is between 18-30%.

1. To increase wrench-time (hands on tool time)

**What is Wrench-Time and how it Impacts Planning and Scheduling**

- Wrench-Time (hands on tool time)
  - Typical Wrench-Time: 5 to 15%
  - World Class Wrench-Time: 55-65%
- Maintenance Cost as a % of Replacement of Asset Value is optimized
  - Worst in Class: 6 - 9%
  - World Class: 1.7 - 3.4%



~~Wrench time is a measure of crafts personnel at work, using tools, in front of jobs~~

Wrench time does not include time:

- o Obtaining parts
- o Looking for tools or instructions
- o Travel associated with obtaining parts, tools, etc.
- o Traveling to or from jobs
- o Time spent obtaining work assignments.

2. To reduce "Maintenance Human Error" based on John Day's comment that he created Planning and Scheduling in 1970s to mitigate human error. (John Day PE was the Engineering and Maintenance Manager at Alcoa Mt Holly – first plant in the World Certified as meeting "World Class Maintenance Standards")

3. To reduce Maintenance Cost through Optimizing Maintenance Work by performing the right work at the right time. (See WCM Cost vs Typical Maintenance Organization below)

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%

4. To learn from “hands on exercise” to enhance knowledge transfer.

### Maintenance Planning and Scheduling Best Practices

Maintenance Planning and Scheduling is critical to Optimizing "Maintenance Wrench-Time" and "Reducing Human Error"

<p>Maintenance Planning and Scheduling Workshop Brochure February 8-10 (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	<p>Single Point Lesson – The Role of a Maintenance Planner (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	<p>Human Error High due to Lack of Planning and Scheduling by John Day (pdf)</p> <p><a href="#">DOWNLOAD</a></p>
<p>Steps to Optimize Maintenance Planning and Scheduling (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	<p>Calculating Maintenance and Reliability Initiative ROI (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	<p>DILO Proactive Maintenance Planner (pdf)</p> <p><a href="#">DOWNLOAD</a></p>
<p>Maintenance Planning is Too Hard (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	<p>How to Increase Effectiveness of Maintenance Planning and Scheduling (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	<p>Maintenance WrenchTime - Maintenance Planning Impact (pdf)</p> <p><a href="#">DOWNLOAD</a></p>
<p>DILO a Proactive Maintenance Manager 12-19-21 (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	<p>Top 10 Reasons why Maintenance Planning is not Working (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	<p>Maintenance Planning and Scheduling Workshop Brochure February 8-10 (pdf)</p> <p><a href="#">DOWNLOAD</a></p>
<p>Achieve World-Class Production Through Reliability (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	<p>Maintenance Planner Scheduler Position Description (pdf)</p> <p><a href="#">DOWNLOAD</a></p>	

5. To enable Maintenance Technicians to perform Maintenance Actions to specification with the right part at the right time.

# Why to Attend a Maintenance Planning and Scheduling Workshop



6. To learn how to create a Planning and Scheduling Dashboard

## Maintenance Planning and Scheduling Scorecard

November 2020



7. ...send 2 Maintenance Techs and your Maintenance Planner to a public Planning and Scheduling Workshop

# Maintenance Planning and Scheduling Workshop “Live” and “Virtual” at Southern Wesleyan University’s Bryant Lodge

February 8-10, 2022

At a Great training location on a small lake and quiet -- 4 miles from Clemson, SC --- 30 minutes from GSP Airport (Greenville-Spartanburg Airport)

Information? [rsmith@worldclassmaintenance.org](mailto:rsmith@worldclassmaintenance.org)



Bryant Lodge



# #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](http://www.upkeep.com)

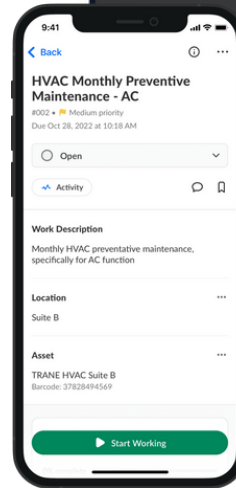
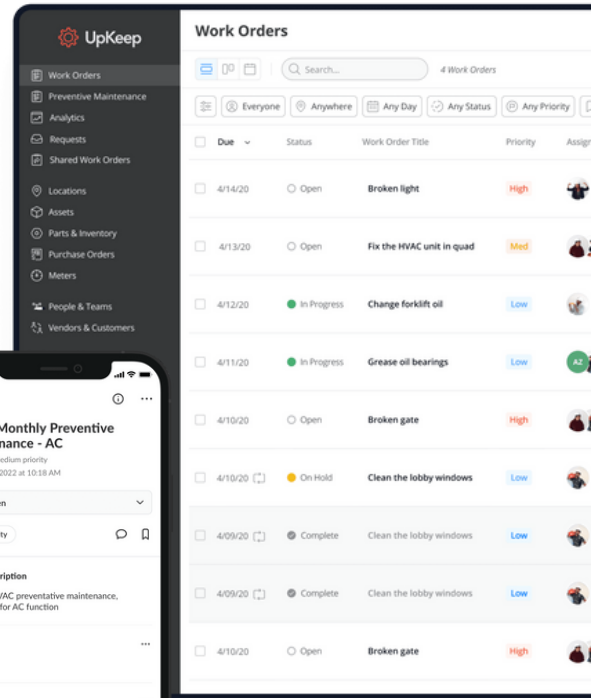
## Our Products



**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."**

★★★★★ 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.

**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.

