

# Little Nuggets of Wisdom for Work Management



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#### **Doc Palmer**

 Turned around Jacksonville Electric Authority's maintenance planning program during career of 25 years as practitioner (retired 2007).



 Requested by world's largest book publisher, McGraw-Hill, to author the *Maintenance Planning and Scheduling Handbook* 1st ed. 1999 (now in <u>4th ed</u>. March 2019)



 Currently providing guidance, mentoring, and training for companies internationally for maintenance planning success.







### The Essence of *Planning* (Why It Works)

Allowing planners to "fail" makes it possible to plan all the work to improve plans "over time" (and support scheduling)

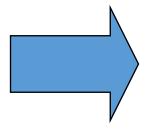






Is Not Necessarily or Simply

**Plan** 



Do







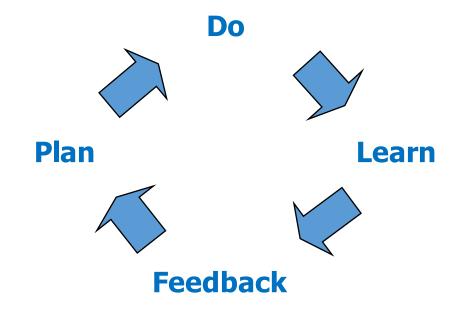








• Is a *Cycle* of Improvement

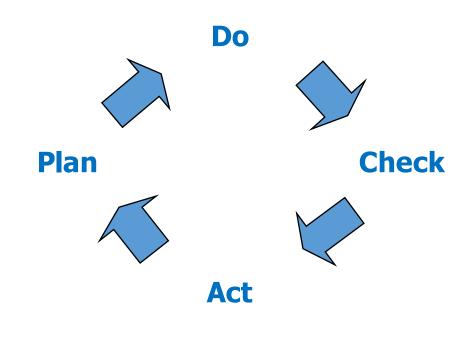








- Simply the PDCA Cycle
- W. Edwards Deming 1950's





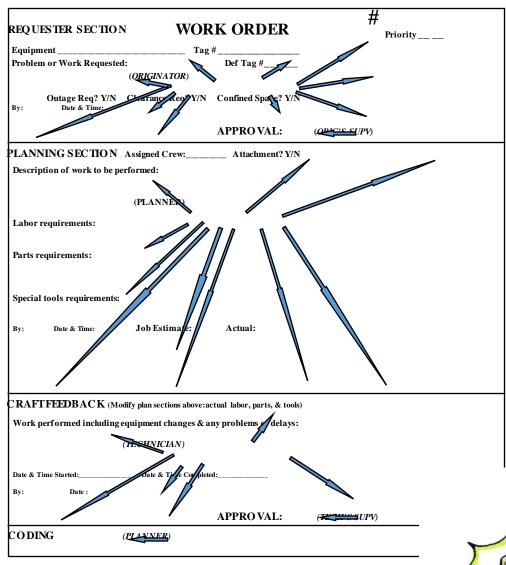




What we planned to do

What we did

Could be 3 different things!







- What you did if different from the plan. (We do not want anyone ever to <u>blindly</u> follow a job plan!)
- What you think caused the problem if not clear in the work order
- What you think could be done better\* next time we work on this job (What would you like to see on the plan if you did this job again? Did you have to make more than one trip to the job site?)

\*(**not** "what was wrong or incorrect")







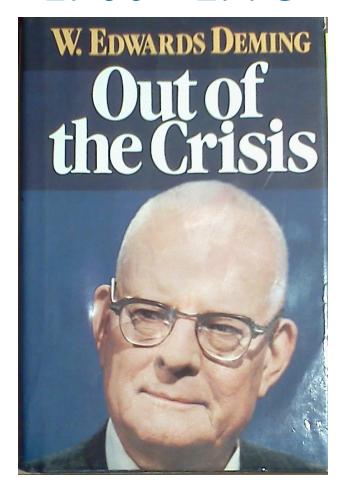
#### Feedback Six (Aids to Collect)

- Craft uses paper orders in field or other "real time" non-restrictive data input
- Planner goes to some crew meetings
- Planner includes Procedure History on plans (Shows that we <u>used</u> the feedback and helps us keep track of changes)
- Supervisor supports; reviews collected work orders
- Management supports; discusses # helpful feedbacks received or # job plans revised
- Management holds short training classes and ongoing discussions





#### Dr. W. Edwards Deming 1900 - 1993









"American management thinks that they can just copy from Japan. But they don't know what to copy."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w">http://www.brainyquote.com/quotes/authors/w/w</a> ed
<a href="http://www.brainyquote.com/quotes/authors/w/w">wards deming.html</a> accessed 14 June, 201





# "If you can't describe what you are doing as a process, you don't know what you're doing."





### "A bad system will beat a good person every time."







## "It is not necessary to change. Survival is not mandatory."





## "I am forever learning and changing."







#### We do not want anyone ever to blindly follow a job plan!

## "All anyone asks for is a chance to work with pride."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w">http://www.brainyquote.com/quotes/authors/w/w</a> ed
<a href="http://www.brainyquote.com/quotes/authors/w/w">wards deming.html</a> accessed 14 June, 2015.







### "Quality is pride of workmanship."







## "Quality is everyone's responsibility."





#### "Hold everybody accountable? Ridiculous!" "When a system is stable, telling the worker about mistakes is only tampering."





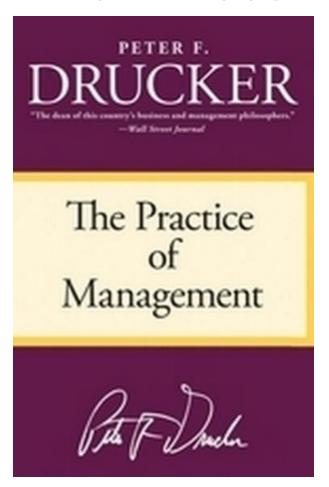
## "Lack of knowledge... that is the problem."







#### Dr. Peter F. Drucker 1909 - 2005









#### The "feedback thing"

"Follow effective action with quiet reflection. From the quiet reflection will come even more effective action."



# "A manager is responsible for the application and performance of knowledge."



# "Today knowledge has power. It controls access to opportunity and advancement."



# "Knowledge has to be improved, challenged, and increased constantly, or it vanishes."



"We now accept the fact that learning is a lifelong process of keeping abreast of change. And the most pressing task is to teach people how to learn."





## "The only thing we know about the future is that it will be different."



"Trying to predict the future is like trying to drive down a country road at night with no lights while looking out the back window."





# "The entrepreneur always searches for change, responds to it, and exploits it as an opportunity."





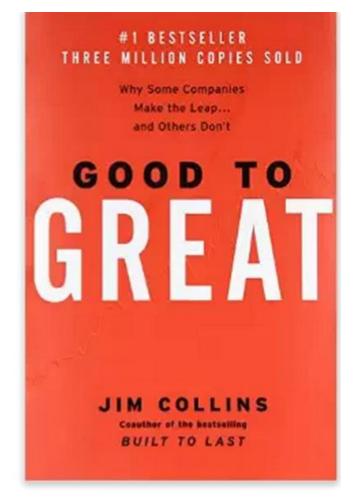
## "Making good decisions is a crucial skill at every level."







### Jim Collins 1958 -









#### "To go from good to great requires transcending the curse of competence."

Jim Collins

<a href="https://books.google.com.br/books/about/Good\_to\_G">https://books.google.com.br/books/about/Good\_to\_G</a>

reat.html?id=Q7ja95uwUT4C&source=kp\_cover&hl

=en\_accessed 14 June, 2015.



"When you combine a culture of discipline with an ethic of entrepreneurship, you get the magical alchemy of great results."

Jim Collins

<a href="https://books.google.com.br/books/about/Good to Great.html?id=Q7ja95uwUT4C&source=kp cover&hl=en accessed 14 June, 2015.">https://books.google.com.br/books/about/Good to Great.html?id=Q7ja95uwUT4C&source=kp cover&hl=en accessed 14 June, 2015.</a>



#### Those who launch radical change programs and wrenching restructurings will almost certainly fail to make the leap."

Jim Collins

https://books.google.com.br/books/about/Good\_to\_G reat.html?id=Q7ja95uwUT4C&source=kp\_cover&hl =en\_accessed\_14\_June, 2015.





#### Doc and others...







## "Planning is about defeating Murphy's Law"

Doc Palmer

Maintenance Planning and Scheduling Handbook







#### Murphy's Law: Anything that can go wrong will go wrong











### Planners save information for craftspersons

#### "A planner is a 'craft historian'"

David Clemons
Planner at JEA















## USA: Understand, Simplify, then Automate (Karl Kapp)

# "If we have to use a CMMS, make it quick and painless"

Rick Baldridge, Cargill







## "The computer is a moron."

Dr. Peter F. Drucker

<a href="http://www.brainyquote.com/quotes/authors/p/peter-drucker.html">http://www.brainyquote.com/quotes/authors/p/peter-drucker.html</a> accessed 14 June, 2015.







### We "grow" better plans over the years

"As a planner, I plant seeds that grow. I do not plant full grown oak trees."

Warren Trojanoski
Planner at JEA







## Start <u>here</u> when planning jobs (Management by Objective)

## "The emphasis should be on why we do a job."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w">http://www.brainyquote.com/quotes/authors/w/w</a> ed
<a href="http://www.brainyquote.com/quotes/authors/w/w">wards deming.html</a> accessed 14 June, 2015.







## "A problem well stated is a problem half solved"

Charles Kettering







### Get those jobs through the Deming Cycle

## "Put what you know, and go!"

2015 Lisa Horton, Columbia Pipeline Group







## Collect and incorporate that feedback

## "A short pen is better than a long memory"

2014 Mechanical Supervisor Bunge Company in Barcelona Spain quoting his grandmother







## "A good note is better than a good memory"

~2010 John Kasper pastor







#### That feedback is "out there"

#### "We are data rich, but information poor"

Heard at SMRP conference circa 1990's







## "If GE knew what GE knew, we'd be invincible!"

Attributed to Jack Welch CEO GE







(Why should we have to find the mouse a second time?)







## Craftspersons fear giving feedback to make plans better

## "The planning program is not trying to give away the plant's work to contractors"

Doc Palmer

Maintenance Planning and Scheduling Handbook





## Lesson: Because plans are not perfect, run the Deming Cycle

"The best-laid schemes o' mice an' men gang aft a-gley" The best laid schemes of mice and men oft go astray

Robert Burns
Poet







## scheduling

## The Essence of *Scheduling* (Why It Works)

Creating <u>fully-loaded</u> schedules <u>and</u> <u>allowing breaking them</u> makes it possible to complete more work overall.





#### Scheduling

Is Not Necessarily or Simply

Hour by hour with names a week in advance

M	T	W	Th	F
Fred #15678	Mike #14356	Mike #14682	Mike #19765	Mike #12345
Mike #15983	Jack #13456	Fred #15234	Jason #18764	Jack #11123
Jack #15893	Jason #12356	Mike #15790	Fred #16387	
Fred #16222	Mike #15467		Miles #17065	Fred #13456
Jack #14567	Fred #18796	Mike #13458	Mike #17865 Jason #15689	
		Fred #13478	Jason #15005	Mike #17856
Mike #13456	Jack #18976	Jason #17689	Jack #15672	Fred #15470
Jason #18395	Jason #12359	Mike #14579	Mike #14567	Jason #13600

(However, daily schedules have names set DAILY by crew supervisor)







#### Scheduling

 Is a full allocation of work for a week to defeat Parkinson's Law. Could be a list or a bucket





#### Scheduling

- Simply MBO Management by Objective
- Peter Drucker 1950's
- The "objective" is to help us complete more work than we would normally complete.







## "Management by objective works - if you know the objectives. Ninety percent of the time you don't."

Dr. Peter F. Drucker

<a href="http://www.brainyquote.com/quotes/authors/p/peter-drucker.html">http://www.brainyquote.com/quotes/authors/p/peter-drucker.html</a> accessed 14 June, 2015.



The objective of scheduling is to help us "complete more work," not necessarily to "complete the schedule."

Doc Palmer

Maintenance Planning and Scheduling Handbook





"if you don't know where you want to go, then it doesn't matter which path you take." alice in wonderland





## "Scheduling is about defeating Parkinson's Law"

Doc Palmer

Maintenance Planning and Scheduling Handbook







## Parkinson's Law: The amount of work assigned will expand to fill the time available

1955 Cyril Parkinson
(November 19th, 1955), <u>Parkinson's Law</u>, The
Economist as reported in
<a href="http://en.wikipedia.org/wiki/Parkinson's law">http://en.wikipedia.org/wiki/Parkinson's law</a>
accessed 10 Oct, 2013.





## "Parkinson's Law works everywhere"

1986 Michael Gorbachev as quoted by Margaret Thatcher

O'Sullivan, John (June 2008). "Margaret Thatcher: A Legacy of Freedom". Imprimis (<u>Hillsdale College</u>) 37 (6): 6. as reported in <a href="http://en.wikipedia.org/wiki/Parkinson's\_law">http://en.wikipedia.org/wiki/Parkinson's\_law</a> accessed 10 Oct, 2013.



# "Time is the scarcest resource and unless it is managed nothing else can be managed."

Dr. Peter F. Drucker

<a href="http://www.brainyquote.com/quotes/authors/p/peter-drucker.html">http://www.brainyquote.com/quotes/authors/p/peter-drucker.html</a> accessed 14 June, 2015.



The average American worker has fifty interruptions a day, of which seventy percent have nothing to do with work."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w/ed/wards-deming.html">http://www.brainyquote.com/quotes/authors/w/w/ed/wards-deming.html</a> accessed 14 June, 2015.





#### We must fully load schedules...

"The productivity of work is not the responsibility of the worker but of the manager."

Dr. Peter F. Drucker

<a href="http://www.brainyquote.com/quotes/authors/p/peter-drucker.html">http://www.brainyquote.com/quotes/authors/p/peter-drucker.html</a> accessed 14 June, 2015.





### ...and allow breaking the schedule

"People with targets and jobs dependent upon meeting them will probably meet the targets - even if they have to destroy the enterprise to do it."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w">http://www.brainyquote.com/quotes/authors/w/w</a> ed
<a href="mailto:wards">wards deming.html</a> accessed 14 June, 2015.





### (SC is not about underloading the schedule to look good)

# "Weekly schedule compliance is the ultimate measure of proactive maintenance"

John Crossan, Clorox, 1997







# "Whenever there is fear, you will get wrong figures."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w">http://www.brainyquote.com/quotes/authors/w/w</a> ed
<a href="mailto:wards">wards deming.html</a> accessed 14 June, 2015.







### "Schedule compliance is not strictly under the control of the supervisors"

Doc Palmer

Maintenance Planning and Scheduling Handbook







#### (Truths about scheduling)

### "Planners cannot make the perfect time estimate"

Doc Palmer

Maintenance Planning and Scheduling Handbook







### Planners are "estimating" not "exactimating"

2019 Jason Henley Veolia





# "Management cannot hold technicians accountable to time estimates for single jobs"

Doc Palmer

Maintenance Planning and Scheduling Handbook







### "Wrench time" at good plants is 35%, but best practice is 55%

# "The big problems are where people don't realize they have one in the first place."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w">http://www.brainyquote.com/quotes/authors/w/w</a> ed
<a href="mailto:wards">wards deming.html</a> accessed 14 June, 2015.





### WT merely explains why there is an opportunity

## "Wrench time is not strictly under the control of the technicians"

Doc Palmer

Maintenance Planning and Scheduling Handbook













#### 30 persons + 1 planner = 47 persons!

### "I planner equals 17 persons"

Doc Palmer

Maintenance Planning and Scheduling Handbook







#### Lesson: Because of Parkinson's Law, load up schedules

Increase Your
Workforce without
Hiring







#### How P&S Helps

Run Deming Cycle to plan enough work to fully load schedules = more proactive work

Weekly

**Scheduling** 

**Deming** Cycle **Improving** Job Quality Database

**Decisions** 

**Planning** 

Work

**Future** 

Using **WO** data to select best projects with labor to execute

(But does not run **Deming** Cycle)

Chasing **Parts** 

**Time** 







### Extra labor to do more proactive work

### "Efficiency is doing things right; effectiveness is doing the right things."

Dr. Peter F. Drucker

<a href="http://www.brainyquote.com/quotes/authors/p/peter\_drucker.html">http://www.brainyquote.com/quotes/authors/p/peter\_drucker.html</a> accessed 14 June, 2015.







### Be able to pick the best proactive work and projects

#### "Modern maintenance needs to do less with less"

Larry Bradley 2005

Technical Superintendent St. Johns River Power Park 2005







# Some other stuff





#### Vendors and contractors

"The result of long-term relationships is better and better quality, and lower and lower and lower costs."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w">http://www.brainyquote.com/quotes/authors/w/w</a> ed
<a href="mailto:wards">wards deming.html</a> accessed 14 June, 201





### People, management, and measuring

### "Be careful to mind the store and not just mind the score"

Attributed to Unknown







### "Avoid KP-Itis"

**Bob Welnick** 









# "It is better to train employees and lose them than to not train them and keep them"

Zig Ziglar

<a href="https://www.goodreads.com/quotes/search?utf8=%E">https://www.goodreads.com/quotes/search?utf8=%E</a>

2%9C%93&q=ziglar+train&commit=Search

accessed 26 July, 2023.





### "Everyone should go home at the end of the day knowing if they have won or lost"

Charles Coonradt
The Game of Work







# "The prevailing system of management has crushed fun out of the workplace."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w">http://www.brainyquote.com/quotes/authors/w/w</a> ed
<a href="mailto:wards">wards deming.html</a> accessed 14 June, 201<sup>-</sup>



"Most of what we call management consists of making it difficult for people to get their work done."

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/i drucker.html accessed 14 June, 2015.

Doc Palmer







### "Everyone should enjoy their work"

Doc Palmer

Maintenance Planning and Scheduling Handbook







### "Everyone is an adult"

Doc Palmer

Maintenance Planning and Scheduling Handbook







# "The most important thing in communication is hearing what isn't said."

Dr. Peter F. Drucker

<a href="http://www.brainyquote.com/quotes/authors/p/peter-drucker.html">http://www.brainyquote.com/quotes/authors/p/peter-drucker.html</a> accessed 14 June, 2015.







# Conclusion







### There's a lot of stuff to think about

# "Rational behavior requires theory. Reactive behavior requires only reflex action."

Dr. W. Edwards Deming
<a href="http://www.brainyquote.com/quotes/authors/w/w edwards deming.html">http://www.brainyquote.com/quotes/authors/w/w edwards deming.html</a> accessed 14 June, 201





## "You can make a lot of crazy rules if you ignore reality!"

(Doc's daughter Abby)







# Thank your family!







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MAINTENANCE PLANNING AND SCHEDULING



Edmonton, AB April 16-17, 2024

Atlanta, Georgia June 18-19, 2024

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