





1



### Presentation of a successful experience, case study, or project.

In the Brújula Session, you will learn from the shared experience of a successful implementation that will serve as a guide to initiate or improve your own plans.

Solve problems and improve your reliability through the implementation of new methodologies and technologies, understanding the origin, analysis, action plan, step-by-step process, achievements, setbacks, and lessons learned that culminate in the business case.







## Little Nuggets of Wisdom for Work Management



Doc Palmer PE, MBA, CMRP

Author McGraw-Hill Maintenance Planning and Scheduling Handbook



Doc Palmer

3





### 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)

Doc Palmer





5

### Planning Is <u>NOT</u> Necessarily or Simply





Doc Palmer







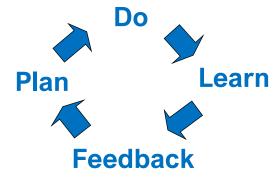
(A sticker seen on a hard hat)





### Planning IS

A Cycle of Improvement





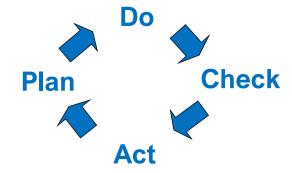
Doc Palmer



### Planning IS

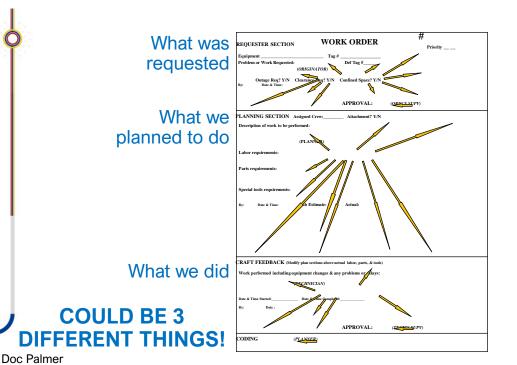


- Simply the PDCA Cycle
- W. Edwards Deming 1950's



Doc Palmer

9









### Feedback Three (Types of Feedback)



- What you did if different from the plan.
   (We do not want anyone ever to blindly follow a job plan!)
- · What you think caused the problem if not clear
- 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")

Doc Palmer

11





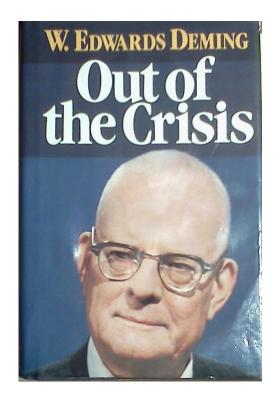


- Craft uses paper orders in field or other "real time" non-restrictive data input
- Planner goes to some crew meetings
- Planner includes Procedure History on plans (Shows that we used the feedback and helps us keep track of changes)
- Supervisor supports; reviews collected work orders
- Management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



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

What does Dr. Deming have to say?



Doc Palmer

13

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

Dr. W. Edwards Deming
http://www.brainyquote.com/quotes/authors/w/w\_edwards\_
deming.html accessed 14 June, 2015.

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

Dr. W. Edwards Deming http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

Doc Palmer

15

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

Dr. W. Edwards Deming http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

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

Dr. W. Edwards Deming http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

Doc Palmer

17

## "I am forever learning and changing."

Dr. W. Edwards Deming
http://www.brainyquote.com/quotes/authors/w/w\_edwards\_
deming.html accessed 14 June, 2015.

### 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 http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

Doc Palmer

19

## "Quality is pride of workmanship."

Dr. W. Edwards Deming
http://www.brainyquote.com/quotes/authors/w/w\_edwards\_
deming.html accessed 14 June, 2015.

## "Quality is everyone's responsibility."

Dr. W. Edwards Deming http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

Doc Palmer

21

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

Dr. W. Edwards Deming http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

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

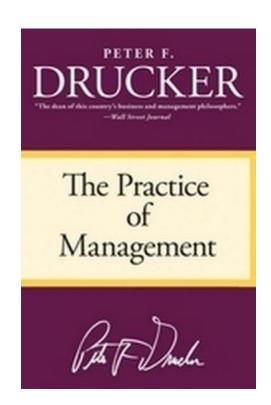
Dr. W. Edwards Deming
http://www.brainyquote.com/quotes/authors/w/w\_edwards\_
deming.html accessed 14 June, 2015.

Doc Palmer

23

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

What does Dr. Drucker have to say?



Doc Palmer

#### The "feedback" thing

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

**Doc Palmer** 

25

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

Doc Palmer

27

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

"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."

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

**Doc Palmer** 

29

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

"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."

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

Doc Palmer

31

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

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

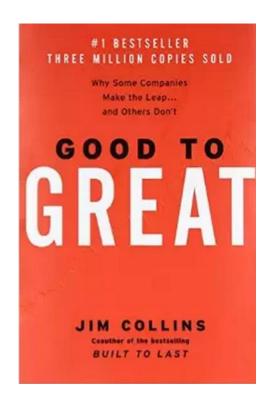
Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

Doc Palmer

33

### Jim Collins 1958 -

What does Jim Collins have to say?



Doc Palmer

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

Jim Collins
https://books.google.com.br/books/about/Good\_to\_Great.h
tml?id=Q7ja95uwUT4C&source=kp\_cover&hl=en
accessed 14 June, 2015.

Doc Palmer

35

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

Jim Collins
https://books.google.com.br/books/about/Good\_to\_Great.h
tml?id=Q7ja95uwUT4C&source=kp\_cover&hl=en
accessed 14 June, 2015.

# "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\_Great.h
tml?id=Q7ja95uwUT4C&source=kp\_cover&hl=en
accessed 14 June, 2015.

Doc Palmer

37

### Doc and Others...



• How about some other nuggets?

Doc Palmer



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

Doc Palmer

Maintenance Planning and Scheduling Handbook

Doc Palmer

39

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

**Doc Palmer** 





### Planners save information for craftspersons

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

David Clemons
Planner at JEA

Doc Palmer

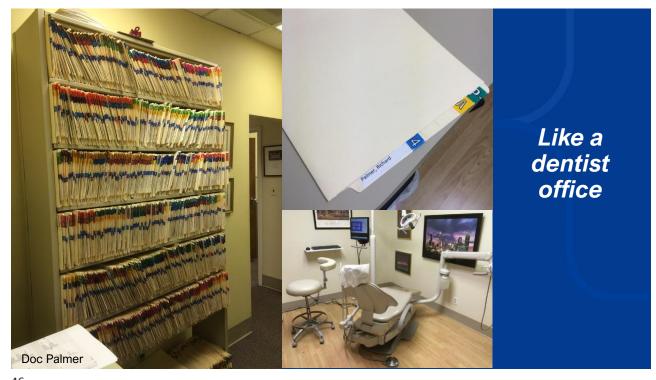
43





Asset
library:
paper or
computer

45





Must have asset numbers

47

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

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

Rick Baldridge, Cargill

**Doc Palmer** 

### "The computer is a moron."

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

Doc Palmer

49

### 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 here when planning jobs (Management by Objective)

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

Dr. W. Edwards Deming http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

Doc Palmer

51

## "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

Doc Palmer

53

### 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

Doc Palmer

55

#### That feedback IS "out there"

"We are data rich, but information poor"

Heard at SMRP conference circa 1990's

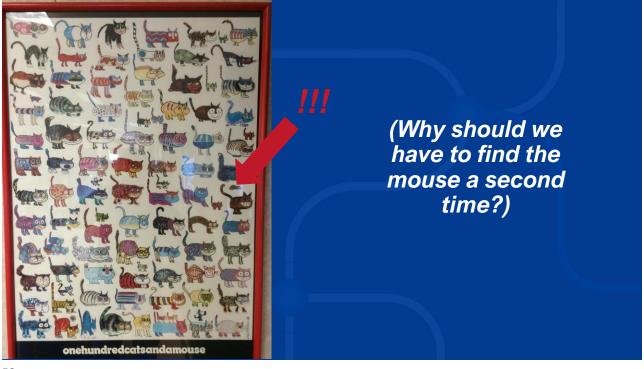
**Doc Palmer** 

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

Attributed to Jack Welch CEO GE

Doc Palmer

57



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

Doc Palmer

59

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



61



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



• Creating fully-loaded schedules and allowing breaking them makes it possible to complete more work overall.

Doc Palmer



### Scheduling Is <u>NOT</u> Necessarily or Simply



Hour-byhour with names a week in advance

M	Т	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 #4.7005	Fred #13456
Jack #14567	Fred #18796	Mike #13458	Mike #17865  Jason #15689	Mike #17856
Mike #13456	_	Fred #13478 Jason #17689		
	Jack #18976		Jack #15672	Fred #15470
Jason #18395	Jason #12359	Mike #14579	Mike #14567	Jason #13600



Doc Palmer

63

### Scheduling IS



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



Fill Available Crew Skill Hours with Work Order Hours



Doc Palmer





### Scheduling IS



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

Doc Palmer

65



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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

Doc Palmer

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

Doc Palmer

Maintenance Planning and Scheduling Handbook

Doc Palmer

67

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

The Cheshire Cat
Lewis Carroll 1865

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

Doc Palmer

Maintenance Planning and Scheduling Handbook

Doc Palmer

69

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

1955 Cyril Parkinson (November 19th, 1955), Parkinson's Law, The Economist as reported in http://en.wikipedia.org/wiki/Parkinson's law 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 (Hillsdale College) 37 (6): 6. as reported in
http://en.wikipedia.org/wiki/Parkinson's\_law accessed 10 Oct, 2013.

Doc Palmer

71

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

Doc Palmer

73

MANAGEMENT must insist we fully load schedules...

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html 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

http://www.brainyquote.com/quotes/authors/w/w\_edwards\_

deming.html accessed 14 June, 2015.

Doc Palmer

75

(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 http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

Doc Palmer

77

# "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

Doc Palmer

79

## Planners are "estimating" not "exactimating"

2019 Jason Henley Veolia

**Doc Palmer** 

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

Doc Palmer

Maintenance Planning and Scheduling Handbook

Doc Palmer

81

"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 http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html 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

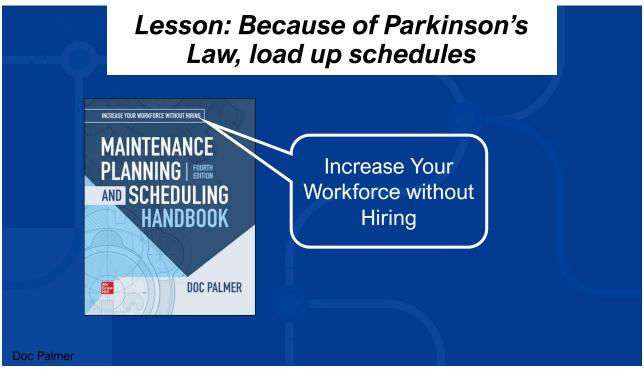
Doc Palmer

83



(Not simply this)





#### Extra labor to do more proactive work

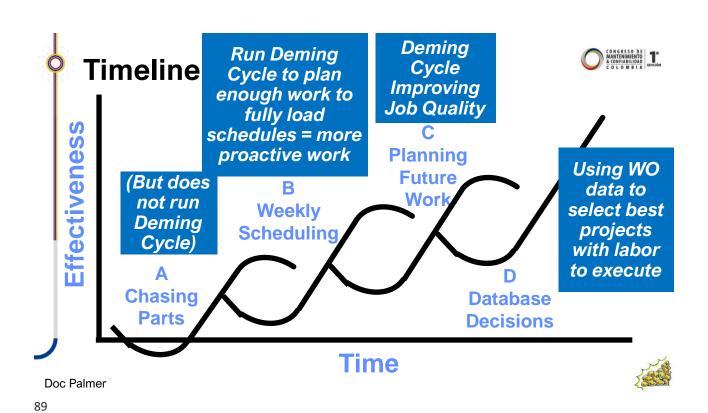
"Efficiency is doing things right; effectiveness is doing the right things."

Dr. Peter F. Drucker
http://www.brainyquote.com/quotes/authors/p/peter\_druck
er.html accessed 14 June, 2015.

Doc Palmer

87





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

**Doc Palmer** 



#### **Vendors & Contractors**

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

Dr. W. Edwards Deming http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

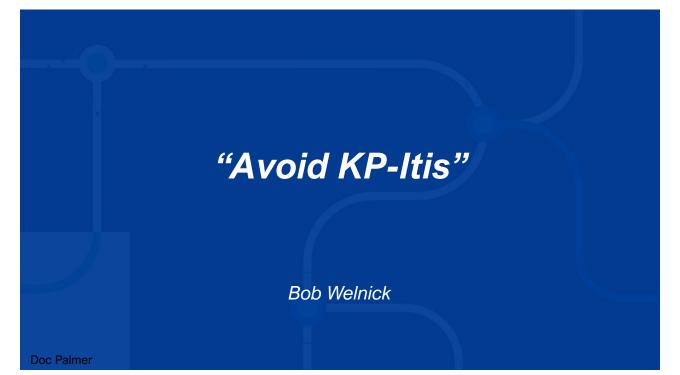
### People, management, and measuring

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

Attributed to Unknown

Doc Palmer

93





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

Zig Ziglar https://www.goodreads.com/quotes/search?utf8=%E2%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

Doc Palmer

97

# "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/peter\_druck er.html accessed 14 June, 2015.

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

Dr. W. Edwards Deming http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

**Doc Palmer** 

99

#### "Everyone should enjoy their work"

Doc Palmer

Maintenance Planning and Scheduling Handbook

#### "Everyone is an adult"

Doc Palmer

Maintenance Planning and Scheduling Handbook

Doc Palmer

101

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

Dr. Peter F. Drucker http://www.brainyquote.com/quotes/authors/p/peter\_druck er.html accessed 14 June, 2015.

**Doc Palmer** 



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

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

Dr. W. Edwards Deming http://www.brainyquote.com/quotes/authors/w/w\_edwards\_deming.html accessed 14 June, 2015.

**Doc Palmer** 



(Doc's daughter Abby)

Doc Palmer

105









### Little Nuggets of Wisdom for Work Management

#### **Doc Palmer**

docpalmer@palmerplanning.com www.palmerplanning.com

> www.YouTube.com/ @docpalmerplanning

> > 1-904-228-5700

