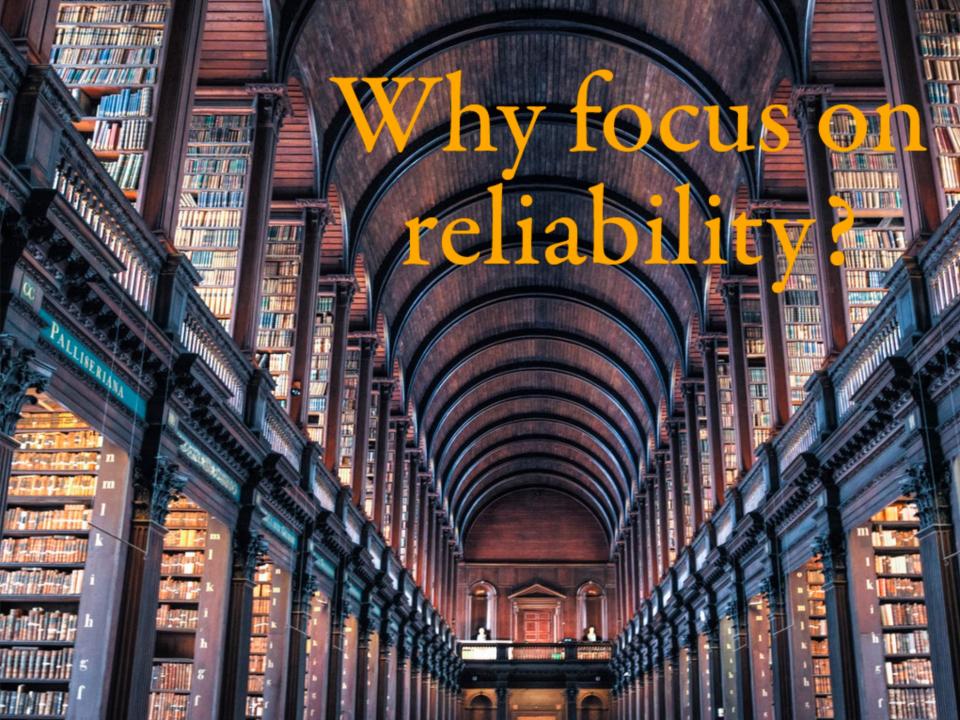
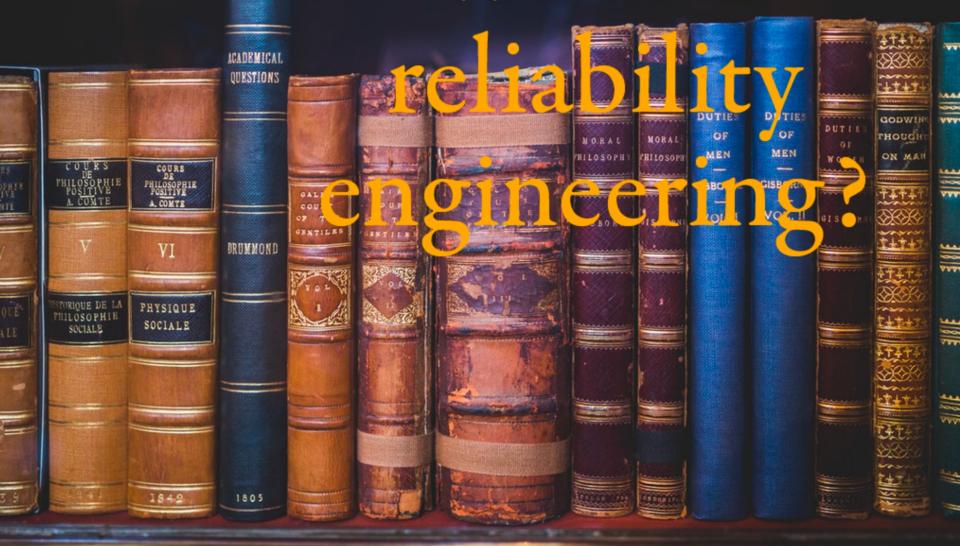
How to Learn Reliability Engineering

Fred Schenkelberg



What is





If you just became a reliability engineer

today - what would you google?

1st Day







Questions

Approach

Resources

Ask Questions



It's your first day – you need to start asking questions. A lot of them. task(s) criteria timeline

who needs the results

why do they need the results

what do we know

what do we not know

What Approach to Take



What do you need to know, right now?

a study

some research

verifying a requirement

stablizing a process

solving a failure mechanism

influencing a design or process

Resources & Constraints



What is available or not?

budget

people & skills available

samples

vendor knowledge

books, procedure, standards

who did this before

What did you do

your first day?

First Week







Decisions

Connections

Value

What Decisions



How and who will use the results of our work?

What is necessary to inform someone's decision? and what is that decision?

What decisions do you have authority to make?

What deisons do you need approval and under what criteria?

Connections



How does what you do connect to others?

Who knows something about this issue?

Who should or wants to know?

Who needs to know?

What is known or been done

What is unknown and needs to be known

Add Value



In a world of scarcity, be useful.

If this task goes well, so what?

If this task fails, what happens?

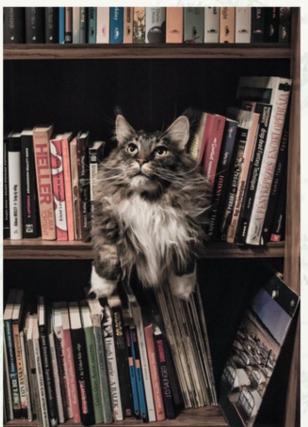
Add to the team's ability to solve problems, do not create problems

How would you advise

someone just starting?

1 Year





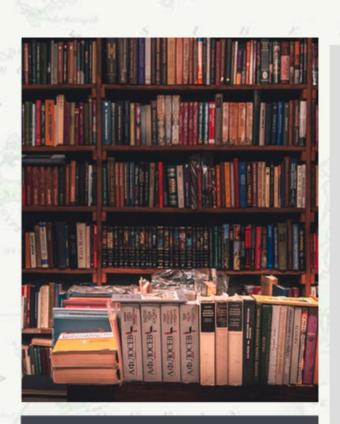


Feedback

Strategy

Culture

Seek Feedback



Be deliberate about learning

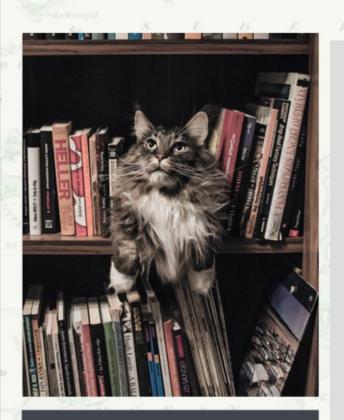
You have done some stuff - how did it go?

what went well - why?

what went not so well - why?

This is for your own performance and for the team/organization's performance, too

Draft a Strategy



both for youself and your organization

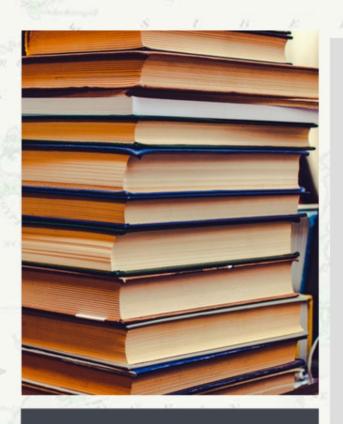
Understand the senior teams vision

Assess current situation

Layout short and long term plan

Focus on the culture

Build a Reliability Culture



Make it easy for everyone to make decisions considering reliability

Both for yourself

- professional development
- networking

and your organization

- guidelines & references
- objectives & approaches

Again, focus on decision making and adding value

What tools did you

first learn?

Ongoing







Decisons

Leadership

Value

Focus on Decisions



It's all about influencing decisions

Always - connect tasks and activities to decisions in a useful manner

Else - don't do it

Enable others to make reliability concious and informed decisions

Reliability Leadership



You have to take charge of the topic. Show the way.

We are one of the few positions that works:

across the entire product life-cycle

across the entire organization

with all suppliers and customers

With your span you can connect and lead

Reliability Value



Estimate the value of proposed actions

Calculate the achieved value or actions

What you do makes a difference

What is more important

answers or questions?

In Summary

Ongoing Guiding Culture











Day 1 Panic





Year 1



Week1 **Daunted**



More Information

Visit AccendoReliability.com

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Check out the reliability engineering podcast network at Reliability.FM

Download the Finding Value ebook