

Selecting the Right Quality Tools & the Pitfalls of When you Don't



Quality conscience: doing the right thing

7 - II NOVEMBER 2022

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Selecting the Right Quality Tools & the Pitfalls of When you Don't

Paul Vaughan CQP, FCQI, FIIRSM, MICW

A Bit About the Presenter





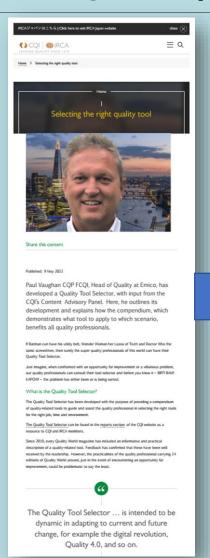
Fellow of the CQI
Chartered Quality Professional
Fellow of the IIRSM
Member of the ICW
ISO 9001;2015 Lead Auditor
ISO 44001;2017 Auditor
ISO 27001:2013 Lead Auditor
RCA Practitioner
Mental Health First Aider
IEMA Environmental
Sustainability Skills for Mgrs.

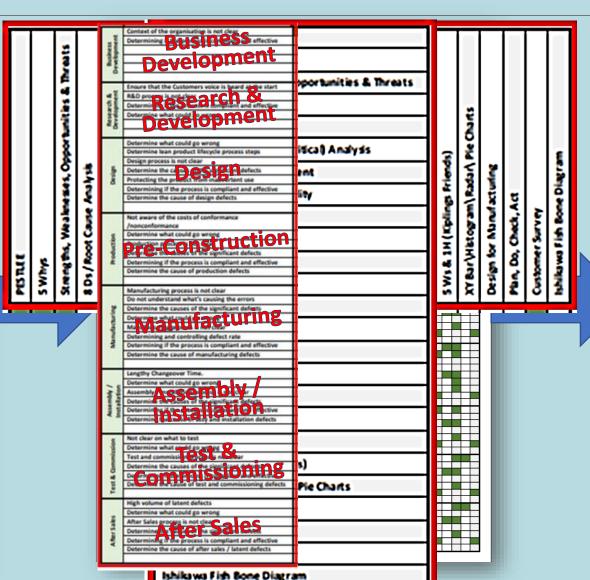
- Paul Vaughan has over thirty-five years of experience working in quality related roles across a number of diverse industries. The last fifteen of which, have been spent in Rail and construction, where he has worked on prestigious projects such as Channel Tunnel Rail Link, Thameslink and Crossrail.
- He is a Chartered Quality Professional and In 2019 was extremely honoured to be awarded Fellowship status with the Chartered Quality Institute.
- Paul's quest for 'giving back' and promoting 'sensible' quality has led him to taking on a number of voluntary roles, such as 2018 International Quality Leadership Judge and Presenter, regular CQI webpage and Quality World article contributor, 2018 International Quality Team of the Year Finalist, Audit SIG Committee member, CQI Content Advisory Panelist, book author etc.
- His ethos is all about sensible quality and by that he means providing value adding and effective quality, opposed to just purely being about compliance. A lot of his recent work has focused on quality behaviours and motivation where experience (sometimes painful) has taught him that using persuasive anecdotal arguments on why something needs to be done and listening back is going to be far more conducive to just telling someone to do something.

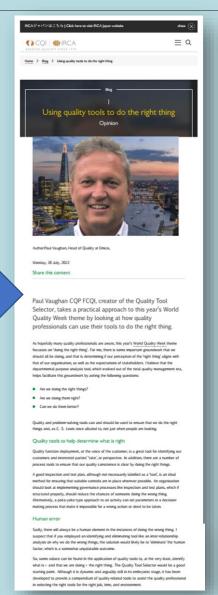




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The Quality Tool Selector





Other 'Quality Conscience' Contributions





"The term 'signing your life away' is often said in jest, but what if we are being asked to sign to verify something is safe maybe an electrical system? We could, in effect, be signing someone else's life away"

> TO HAVE YOUR SAY ON BURNING ISSUES, TWEET US **GOUALITYWORLD, EMAIL** OR POST IN OUR LINKEDIN GROUP

OWN YOUR SIGNATURE

Paul Vaughan FCOI, Head of Quality at Emico, says that only those who are truly responsible, accountable, consulted and informed should sign off documents

As a quality professional, I have been part of - and seen a good deal of - quality initiatives during my career. Many of them, which now probably reside in the 'Failed Initiatives' bin, can be thought of as experiences from which to learn.

A number of initiatives have really resonated, however, one of which was an 'Own Your Signature' campaign. This was part of engineering, construction, and project management company Bechtel's 's Quality Absolutes', and was initially rolled out on the Crossrail project in London. Its appeal is that it has an obvious and simple message, and although it is primarily aimed at the quality professional, it is applicable to all walks of working life.

So what does it mean to 'own your signature'? An unsigned document or form is basically a piece of paper with statements of text on it. A signed document or form is still a written piece of paper, but now it has a personal commitment and responsibility from the signatory. It is, in essence, the culmination and reflection of the signatory's training, knowledge and experience.

For example, when a 'charming' doubleglazing salesperson takes up residence on our sofas - holding the coffee we made in one hand and a pen in the other - and tells us that, by signing there and then, we will benefit from the most remarkable discounted deal ever, a good few of us will surrender and sign, just to get them out of the house. Thankfully, we now have a statutory cooling off period to protect us from pressurised sales such as these.

In the workplace, there may also be times when, as a signatory, you feel under pressure to sign a document or record for example: "Come on mate, the lorry's loaded up and waiting to go!"; or "We need to get the paperwork done now, so that we can get the invoice out today." In the work environment, however, there

isn't a 'cooling off' period in which you can change your mind and 'undo' your signature. The ship, with its uncertain load, has already sailed.

Your signature is something far greater than the 'scribble' that others may see it as; it is a statement of your integrity and, ultimately, you are putting your reputation on the line.

The term 'signing your life away' is often said in jest, but what if we are being asked to sign to verify something is safe - maybe signing an electrical system? We could, in effect, be signing someone else's life away - and, rest assured, the Health and Safety Executive will put a huge emphasis on that 'little scribble'.

Obviously, the true root cause of a problem should not be because the quality professional signed a piece of paper. The old adage that 'you can't inspect quality into a product' holds true. The sad fact of life for a quality professional is that 999 times out of 1,000 nobody says "Well done Paul, you signed off a great piece of work." However, in that 0.1% scenario you can bet everyone's first question will be: "Who signed for this piece of work?" Or worse,

The point of 'who' signs is a key question, and the answer must be only those who are competent and authorised to do so. How do we know who these people are? Well, a good starting point would be from a responsible, accountable, consulted and informed (RACI) chart, job description or the 'Responsibilities' section of a process and/or procedure. In summary, only ever sign or validate

- work when you are: · satisfied that you have the right
- competences and authority; and · certain of the quality and safety of the
- information provided and completion of the work done.

That's how you own your signature.

Skipping the final quality assurance check

In our latest quality dilemma, we look at how a quality professional should handle a situation where a final quality assurance check has been missed in order to fulfil a last-minute delivery

oftware 'V' Ut is a software testing house, providing software for safety control, emergency shutdown and fire and gas systems for the oil and gas industry, it has been in business for more than 20 years, expanding to

A quality professional returned from leave to find an urgent software update had been carried out after a missed client input moultament came to light

The code change was made by a junior software engineer, under the supervision of the software engineering lead. The latter has been with the company since its inception and is highly reported by the centor management team.

The customer is a long-standing client, but has shown increasing discaticfaction with Software 'V' Us over delays to recent releases. They have intimated that they are considering

Due to this, and the 11th-hour change required, the software engineering lead decided to excritice the independent and final quality accurance (QA) check for the cake of making the lact-

The quality professional brought their findings to the managing director who told them that "although not ideal, convitines. these things have to happen? The managing director reminded the quality professional of the consequences if the Issue was to be formally raised, citing:

- The coftware engineering lead, and patentially the junior, would face disciplinary action. Birely leading to dismissui.
- 2. The coftware-would have to be recalled, resulting in operational downtime and loss of revenue for the customer
- 5. This would undoubtedly be the last straw for the customer. resulting in the termination of the contract.
- 4. The customer is responsible for over 70% of the company's order book, so the company would have to make mass redundancies, including indirect staff such as the QA team.

The software-engineering lead argued that they gave this piece of software an even more thorough review, in the innowledg that there wouldn't be a final QA check. They pleaded that there was absolutely nothing wrong with the software change.

As the quality professional, what would you do?

 int, it is important the facts are clearly established, including understanding the definition and six of scopporant can be made on what immediate and medium-term this information. That should then be recorded in the quality management system distalone, or that is the correct and proper with the trains to implement the solutions, building a culture of

the situation under control, as this will build mutual trust.

The managing director should then be encouraged to focus on

rabs cliniter concerns without fear or prejudice. Tits will ensure imported by implementing the ordinary exploits to the customer.

Adedolos should be encouraged in a relay remove to present:

the facts to the customer, and to work collaboratively to bring

and likely wis new and registed besides opportunities.

Thank you to Paul Vaughen COP FCOI and William Rankin COP FCOI for their help with this.

Which per tain! Store you thoughts or how to deal with this disease in proctice at extension appealing any. We also welcome any professional diseases (it can be published consequenced); that you may have at would like to use our.

DESCRIPTIONS | 10

How do we Know What **is** the Right Thing?



Are we doing the right things?

Are we doing the right things right?

Can we do them better?

Departmental Purpose Analysis (DPA) - TQM

Integral to the Process



(Procedure/Guidance/WI)

Controller
Instruction / Process

Input

(Consumed by the process)

Process (Verb Action)

Enabler / Resource
Competence / Tools

Output

(Product (of the process))

Tools

Definition of a 'Quality' Tool



Tool

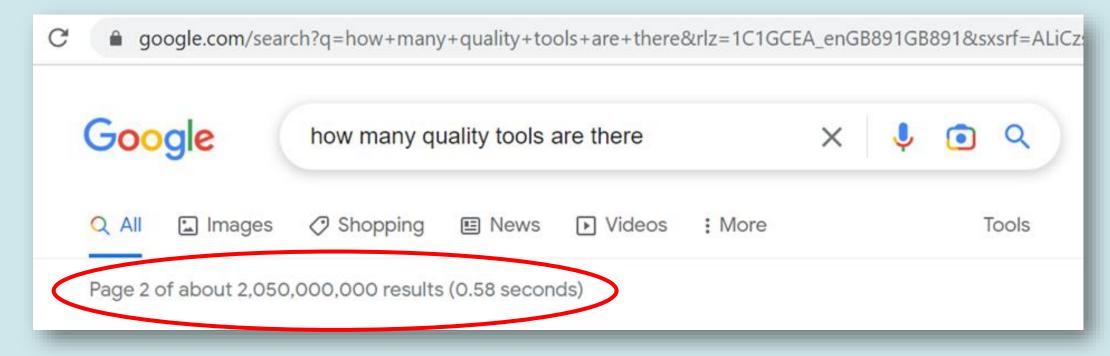
- A device or implement, especially one held in the hand, used to carry out a particular function - Ref. Google
- "2a: something (such as an instrument or apparatus) used in performing an operation or necessary in the practice of a vocation or profession Ref. Merriam Webster
- Ref. ISO 9000:2015 Quality management systems Fundamentals and vocabulary - Two indirect references to 'tools'. But neither preceded by "quality".

Quality Tool

Any device, application or tool that is used to support and deliver the quality
of all products, processes and services. It can take the shape of a chart,
technique or strategy that can be used to ensure that quality objectives are
achieved and maintained. – Ref. Paul Vaughan's 'take' on quality.



'I Googled it!'



"7 basic tools" with 19 variations in the first 4 pages



Business Objectives Related

 The 'objective' of the tool MUST have correlation to achieving the organisation's objectives

Plan, Do, Check, Act (PDCA)

- PDCA is fundamental to the purpose of the tool and everything we do, whether its used for:
 - Planning an activity e.g. an audit programme app;
 - Doing the activity e.g. automated Go / No Go gauging;
 - Checking the activity e.g. control charts; or
 - Acting on the results of the activity e.g. lessons learned



Top Management Buy-in

 If the implementation of the tool isn't supported by top management, it's a non-starter!

Agreed Budget Costing

- No surprises!
- No hidden costs!
- No excuse to discontinue with the tool.

Phase & Time (Constraints)

- Where in the lifecycle are you?
- How much time do you have for the tool to become effective?
 i.e. full blown 8D 'v' abridged alternative?



Competence

- Who's 'gonna' drive it?;
- In-house expertise 'v' external 2nd party support;
- Training considerations;

Measurement – Tool Performance

- Baseline (where we started from);
- Performance targets;

Digital Technology - Quality 4.0

- Embrace the technology, or get left behind!;
- Automated reporting, flagging, trend analysis etc.









"To a man with a hammer, everything looks like a nail"



Don't Let the Tool Choose You!

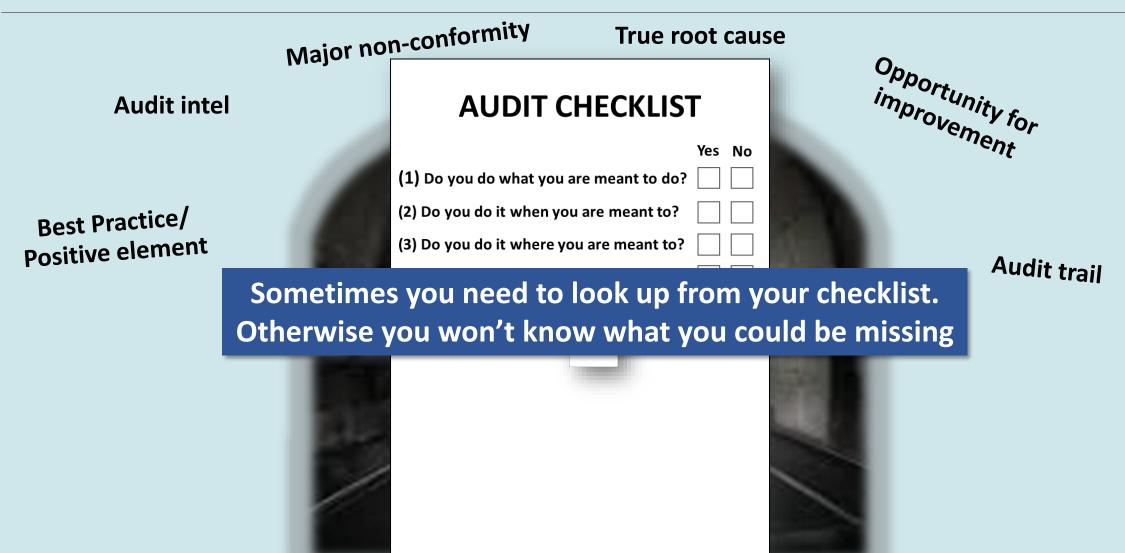
 The classic finance tool that suddenly becomes 'ideal' for goods inwards ... and then before we know it, we've had to change our proven quality processes, so we can put NCRs and audit reports on the tool



Driving a Checklist or Checklist Driven?



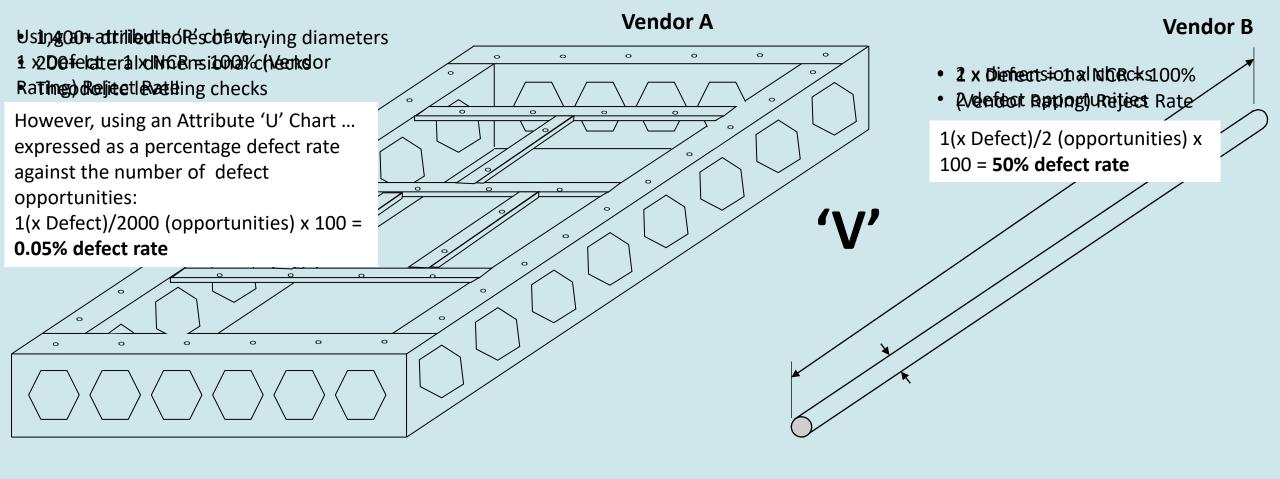




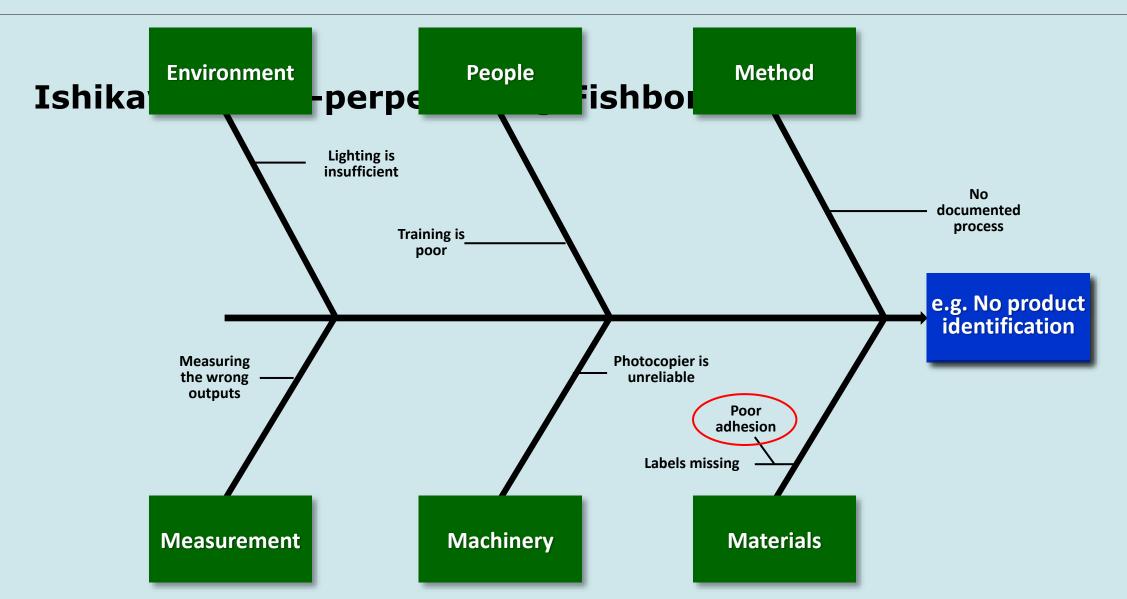




Comparing Apples with Pears – Vendor Rating









Is One Tool Enough?

- Probably not e.g. Root cause analysis (RCA).
- RCA is not a single defined methodology. There are many different tools, processes, and philosophies for performing RCA.
- In most cases it will be appropriate to use more than one tool to establish the true root cause e.g. a combined Affinity Diagram, Five Why's and a Fault Tree analysis.



Yeah But ... What's the Actual Risk?

"People + skills"

"not having the appropriate competence to deliver projects as a result of losing or not having the right people and skills within the business."

"Material prices"

"Escalation of material prices putting additional financial burden on their procurement and subsequent loss of profit."



Quality team
haven't got
enough to do"

Don't Call it "Quality"

 Can be viewed as being right up there with wearing socks with "Obviously, the

sandals

"It's just another quality initiative!"

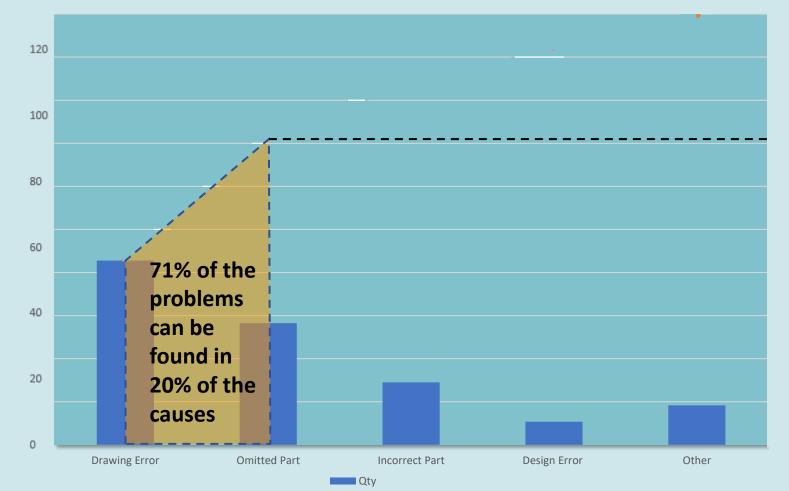
"You'll need to talk to Quality, as they own it"

"Stop your day job guys. That Quality lot have come up with another tool"





There's two "Y"s in Pareto





A Good Lesson to be Learned



Be brave!

Invite the supplier and Customer along to the next Lessons Learned workshop



Entries open Monday 9 January quality.org/IQA23