

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

QUALITY CONSCIENCE



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

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### 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.



#### The Quality Tool Selector





### The Quality Tool Selector



#### Other 'Quality Conscience' Contributions



CTHEAL DILEMMA



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

informed (RACI) chart, job description or

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.

the 'Responsibilities' section of a process

#### 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

#### Scenario ------

offscare W Uk is a suffscare texting house, providing software for safety control, emergency shutdown and fee and gas systems for the oil and gas industry. It has been in business for more than 20 years, expanding to employ 300 staff.

A quality professional returned from leave to find an urgent software update had been carried out after a missed client input next instruct cares to light The cade-change was made by a junior software engineer,

under the supervision of the software engineering lead. The later 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 discaticitaction with Software % Us over delays to recent releases. They have intinuated that they are considering their options.

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

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

 The coffware engineering lead, and potentially the junice, would face disciplinary action. Birely leading to dismicual. 2. The software 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 thansugh review, in the incoviedg that there wouldn't be a final QA check. They pleaded that there was absolutely nothing wrang with the software change. As the quality professional, what would you do?

#### Response -

 inst, it is important the facts are clearly established, including understanding the definition and risk of the problem. By getting a factual timeline visualized – including highlighting key containment actions, ition decisions and investigation output – a logical scattement can be made on what immediate and medium-term teo: need to be taken and precented to internel leaderchip. One would generally harness the support of a cross-functional sam of subject matter experts to help whileve and present. this information. That should then be recorded in the quality. The ments ging offector should be further encouraged to work management system database, as that is the correct and proper with the teams to implement the solutions, building a culture of thing to do as a quality professional.

It is imperative that the quality of the product or service is not impacted by implementing the software update to the customer. Is addentify commitment to contribut improvement and will, in Addeddon should be encouraged in a timely manner to prevent tare, escare defects, heping raise customer, and to ware support and likely we are departed business apportanties.

the elevation under control, as this will build extrust trust. The managing director should then be encouraged to focus on the root caucet of the problem and deal with them fedually and the status. The atening to discipline the junior software engineer and make tech decidions about mass redundensits is clearly demonstrating an inability to grasp the elucation at hand, rather than focusing on the problem and bringing it under control comething the cuctomer would want to see.

trust through leading by example, and to encour on the team to take similar concerns without fear or prejudice. This will ensure

Thank you to Reuf Veughen COP FCOI and William Rankin COP FCOI for their help with this.

Wheth part tain! Shore your thoughts on how to deal with this dimensioparation at a dealering any We also welcome any professional dimense (it can be published assurptional) that you may have at world like to use some

62 | DUALITY WORLD | AUTUMN 2025

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# 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







#### 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!'**

C

google.com/search?q=how+many+quality+tools+are+there&rlz=1C1GCEA\_enGB891GB891&sxsrf=ALiCz

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"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

### Factors for Choosing the Right Tool

#### **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?



### Factors for Choosing the Right Tool

#### Competence

- Who's `gonna' drive it?;
- In-house expertise 'v' external 2<sup>nd</sup> 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"

Abraham Maslow



#### **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**



### **Useful Pointers**







#### **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."



#### Don't Call it "Quality"

 Can be viewed as being right up there with wearing socks with sandals



"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"





#### **Useful Pointers**



#### There's two "Y"s in Pareto



### **Useful Pointers**





#### Be brave!

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



### Entries open Monday 9 January quality.org/IQA23