



“The first step on the road to high performance begins with a choice.”

How the Best Measure, Analyze, and Improve Work Workshop

By Kevin McManus, Great Systems LLC

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2-Day ‘Measurement, Trending, and Predictive Analytics: How the Best Use Data to Measure, Analyze, and Improve Work’ Workshop OVERVIEW

In this workshop, Kevin shares the measurement system best practices and strategies he has learned from decades of experimentation, research, and application. More importantly, he has updated these practices for NextGen workplace use.

This workshop teaches you how to define better measures for any type of work or personal process. Plus, it gives you best practice work process optimization tactics to help you more effectively use the data you capture every day to optimize work process performance. Lastly, this event shows you how to leverage and use emerging technologies that can help you ‘level up’ your potential for proactive process performance analysis and improvement.

The tested and proven measurement work system designs and practices you learn to use in this workshop help you significantly improve how you measure, analyze, and improve daily work. You leave the event with a preliminary set of ‘process vital signs’, an action plan to improve your measurement and analysis processes, and much, much more.

In this 2-day workshop, you learn how to:

- Identify leading counts and ratios that best reflect the ‘vital signs’ of process performance
- Set up a simple process to capture and crunch daily process information
- Review and use measurement results daily to predict, anticipate, and improve performance
- Recognize and engage team members in effective daily measure use
- Select options to improve the design of your existing measurement work system

[Follow this link to register for the October 2025 LIVE course at the TapRoot® Summit in Knoxville, TN](#)

Please email me (kevin@greatsystems.com) to bring a virtual or live version of this course to your organization.

'Measurement, Trending, and Predictive Analytics: How the Best Use Data to Measure, Analyze, and Improve Work' Additional Workshop DETAIL

2-Day Measurement, Trending, and Predictive Analytics Workshop Map

Facilitated by Kevin McManus, CEO, Great Systems LLC

2025 Global TapRoot® Summit
Knoxville, Tennessee

September 29-30, 2025
TapRoot.com

	Topics	Exercises
Day One	<ul style="list-style-type: none"> ● Workshop overview, objectives, expectations ● Need for fundamental measurement change ● Data trending and visualization basics ● Process dataset design and construction ● How to use data daily and improve work ● How to measure virtual, office, and field work ● Projection, goal setting, capability, benchmarks 	<ul style="list-style-type: none"> ● Defining workshop expectations ● Measurement practices / system self-assessment ● Trend analysis practice – red beads, injuries, releases ● Creating / improving a key work process dataset ● Action plan for using data each day to improve ● Options for analyzing team leader daily time use ● Setting effective goals for key process measures
Day Two	<ul style="list-style-type: none"> ● Past, present, and future of work data capture ● Using surveys to measure process effectiveness ● Building algorithms to predict process potential ● Using measures to engage and recognize teams ● How effective is your measurement system? ● Build a better measurement systems planning 	<ul style="list-style-type: none"> ● Creating a work data digitalization plan ● Work process effectiveness survey design practice ● Improvement algorithm creation / application ● Create / improve engagement / recognition metrics ● Measurement system effectiveness review ● Improve data capture, analysis, and use action plan

How can better measures and trend analysis help you improve your work processes?

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Too many leaders say that their organizations measure lots of things, but how often do they measure the right things? Plus, they often fail to effectively use the data they do collect. With so many measures in place, why do so many organizations fail to select and use the right measures?

For example, why do we struggle to select key indicators and goals that best reflect true process performance or capability? What does it take to sustain higher levels of performance versus merely experiencing them for a day or two?

To make things worse, few leaders, let alone staff, understand and know how to apply the measurement basics of process behavior curve, variation, and capability analysis. Trend line use is limited, and improvement efforts are reactionary in nature.

Weak data use leads to poorly selected process changes. Such changes often fail to fix the problem, and instead, result in resource waste. Instead of using data to predict and anticipate change, too many leaders only use data to find and fix obvious problems.

How often do your leaders try to use organizational or business unit-level metrics to diagnose process-level problems and monitor process health? Such an approach often fails to identify key improvement areas.

How do you consistently engage your work team members in daily measure analysis? How does the data they capture every day help drive data literacy and continuous process improvement? Too many measurement system designs provide suboptimal value.

Effective trending and analytics are needed to link process measures with the errors and defects that affect their performance. How do your leaders use work system data to predict future process and business outcomes?

How often do your aggregate work measures fail to provide the sensitivity needed to truly identify work system and process design flaws? What system design flaws prevent your processes from performing at higher levels? How do you effectively use data daily to predict and improve current process performance?

Measurement Practices Effectiveness Review					
	Strongly Disagree		Strongly Agree		
	SD	D	AD	A	SA
● Work teams capture and trend key process counts and ratios to help reduce variability and waste	SD	D	AD	A	SA
● Work teams can explain the dashboards, scorecards, and improvement plans posted in their work process area	SD	D	AD	A	SA
● Regular review of key measure trends for each key performance area leads to consistent process change	SD	D	AD	A	SA
● Improvements and changes can be linked to trend lines	SD	D	AD	A	SA
● Datasets and trends to track key errors, defects, and causes are in use, with evidence of improvement	SD	D	AD	A	SA
● Mechanisms exist to alert people of potential process 'failure'	SD	D	AD	A	SA
● Fact-based root cause analysis identifies improvements that lead to reduced error and failure rates	SD	D	AD	A	SA
● Teams can present evidence of proactive, fact-based change	SD	D	AD	A	SA
● Work teams review process performance on a consistent basis	SD	D	AD	A	SA
● Data capture, analysis, and change practices are assessed and refined on at least an annual basis	SD	D	AD	A	SA

About the author

As Chief Excellence Officer of Great Systems LLC, Kevin McManus provides virtual coaching and content to help people use proven best practices to enhance and optimize their daily work systems.

Over forty years of work experience in roles such as Industrial Engineer, Training Manager, Production Manager, Plant Manager, and Director of Quality give Kevin a 'real life work' perspective relative to daily work process optimization, work team engagement and empowerment, and sustainable operational excellence.



As a contract trainer for the TapRoot® root cause analysis process, Kevin has taught over 450 courses and further enhanced his ability to help leaders proactively minimize risk, reduce errors, and improve reliability. Kevin holds an undergraduate degree in Industrial Engineering and an MBA. He served as a national Malcolm Baldrige Performance Excellence Award Examiner for twenty years, including a three-year term on the national Judge's Panel.

Kevin has authored the monthly performance improvement column for Industrial and Systems Engineer magazine for over 20 years, is an Institute of Industrial and Systems Engineering Fellow and has been a member of IISE for over forty years. His newest book, "Different Company – How the Best Build Great Organizations", will be published in late 2025.

If you would like more information about the improvement tools and systems I have to offer, please send me an e-mail at kevin@greatsystems.com.

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"The first step on the road to high performance begins with a choice."

Kevin McManus, Great Systems!

Great Continuous Improvement Books by Kevin McManus!



Pursuing Process Excellence

- 150 pages of ideas and examples that will help you accelerate and sustain your process improvement efforts
- Over 25 examples of 'best practice' assessment tools that leaders can use to encourage and support high performance work
- 12 team exercises that you can use to begin applying each concept as it is learned



Mistake Proofing and Corrective Action Writing

- 156 pages of exercises, tools, and examples to help you learn about and practice the fundamentals of mistake proofing and corrective action writing
- 14 exercises you can use to practice the five key mistake proofing tactics and identify tasks and processes to target for improvement
- Over 100 proven techniques to help minimize the risk and error potential associated with daily job completion



Error Proof

- 162 pages of examples, strategies and dialogue questions to help you stop daily goofs for good
- Over 100 proven best practices that you can use to help error proof your key work processes
- Can be paired with the 100-page workshop workbook that contains 13 team exercises to help you begin applying key ideas



Facilitating and Leading Teams

- 182 pages of ideas, tools, and examples to help you improve work team, project team, and focus team effectiveness
- 10 assessments that will help you identify areas of strength and weakness relative to work and project team support
- Over 20 team exercises that will help you optimize your use of teams and improve meeting effectiveness, while also practicing your facilitation skills



Lean Tool Use Basics

- 150 pages of exercises, tools, and examples to help you learn about and practice the fundamentals of lean thinking
- 13 exercises you can practice to learn more about using the five key lean tools, creating a lean culture, and planning for lean success
- Two assessments to help you gauge the degree of support your lean efforts require and how much progress you make

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