Cybersecurity Maturity Model Certification (CMMC)

written by Lauri Moon | July 13, 2020

Manufacturers in the DoD supply chain are required to have adequate information security measures in place to protect Controlled Unclassified Information (CUI). Starting in 2020, independent auditors will be assessing manufacturers' security posture, which will determine which contracts they can bid. This session will provide an overview of these requirements and the various options available to ensure compliance with them.

Register

Webinar: Internet of Things for Smarter Manufacturing

written by Lauri Moon | July 13, 2020

The modern manufacturing industry is investing in new technologies such as the Internet of Things (IoT), big data analytics, cloud computing and cyber security to cope with system complexity, increase information visibility, improve production performance, and gain competitive advantage in the global market. These advances are rapidly enabling a new generation of smart manufacturing that "enable all information about the manufacturing process to be available whenever it is needed, wherever it is needed, and in an easily comprehensible form across the enterprise and among interconnected enterprises". Smart manufacturing goes beyond the automation of manufacturing shop floors but rather depends on data-driven innovations to realize high levels of autonomy and optimization of manufacturing enterprises.

This webinar will review the Internet of Things (IoT) for smart manufacturing that help you:

1. Understand the evolution of IoT technology and its applications in the manufacturing domain
2. Develop the strategy to implement IoT technology for smart manufacturing
3. Understand the technology of cloud computing and fog computing for IoT data analytics
4. Realize full potentials of big data through new analytical methods and tools for smarter manufacturing

Register

Webinar: Turning Innovation Talk Into Tangible Results

written by Lauri Moon | July 13, 2020

New business drivers are forcing the Consumer Product Formulated industry to rebuild and rethink every element of the business.

To survive and be successful, you need to leverage digitalization advantages using a strict interaction between the three steps of the value chain: Ideation, Realization and Utilization. Virtually every consumer product company is talking about innovation and digitalization. The challenge is turning the talk into tangible results.

Formulation is a critical component of your innovation process. The science involved in innovating formulas is getting increasingly sophisticated, with regulatory compliance is an integral piece of the intricate puzzle of transforming and orchestrating those new formulas. This entire process needs to be documented and managed judiciously.

To be successful and manage multiple products across your business you need a comprehensive and integrated set of capabilities that support formulated product design and the science behind it. The Digital Thread created throughout that experience contributes to the value stream by solving key problems such as:

- Establishing accurate and detailed material specifications, as the cornerstone for any new product introduction or change process.
- Managing different configurations of a formula and its recipe variations down to the factory floor.
- Laboratory testing, both during the prototype and pilot stage as well as at the manufacturing sites, providing closed loop qualification information, vital quality data and test result for the research development and regulatory teams.
- Understanding and managing the key factors driving businesses towards more control of their value chain, achieving sustainability and adopting best practices to meet regulations and the demands of the consumers

Using an integrated approach from Product & Process Design to Production Execution is the key to providing the necessary visibility and insight, to make the most informed and wise decisions not just for your company, but for future generations.

Join us on January 25 to learn more about compelling solutions for managing the formulation and development of new products for your business.

Speaker

Kenneth Hall, PLM Consultant, Siemens PLM Software

Mr. Hall is on the consumer products and retail team. He has spent over 20 years focused on consumer product based PLM solutions for the formulated industry, more particularly for food and beverage companies. He is currently responsible for introducing PLM solutions in new opportunities and leveraging leading industry practices to help formulated based companies grow.

Technical Details

This webinar will be conducted using a slides-and-audio format. After you complete your registration, you will receive a confirmation email with details for joining the webinar.

Register

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Webinar: Jump Start Continuous Improvement in Your Manufacturing Business

written by Lauri Moon | July 13, 2020

Not all manufacturing businesses want or even need extensive (and expensive!) transformation programs. There are, however, still systemic problems that most leaders need to address such as: unachievable strategies, unclear priorities, misaligned processes and detrimental behaviors that are harming the overall business.

In this webinar, internationally recognized experts in organizational change, will introduce you to the "Leverage Points" transformation methodology. Developed and tested over the past 10 years, this process emerged from studying how successful organizations *really* evolve by implementing small, situation-specific changes to

create focus, alignment, and an achievable plan for driving results.

Webinar participants will have the opportunity to learn and ask questions about:

- The hidden impact of non-value added and strategically-misaligned activities
- Why small, simple changes are often more effective at driving results than big, complex transformations
- How to use Leverage Points to uncover systemic problems, create simple, situation-specific solutions and implement with minimal disruption and stress
- Why socialization and experimentation are critical elements of lasting change
- How to determine if Leverage Points is right for your organization and where to start

Who should attend: CEOS / COOS / CXOS, General Managers, Sector Leaders / Function VPs / Directors / Leaders / Transformation & Continuous Improvement Leaders

Beau Keyte

Beau has specialized in improving corporate performance for three decades. He started in the 80's working with manufacturing industries faced with global competition, then expanded to service and healthcare industries in the early 90's, adapting accredited lean and continuous improvement process tools to new fields of practice. His main interest is now developing and teaching the kind of self-sufficient thinking that challenges work and management processes, improves organizational performance and alignment, and sustains culture change. Recent work has included developing ways for organizations to learn and adapt more quickly through collaborative learning efforts. In addition to assisting companies in implementing performance improvement and culture change strategies, he is aligned with research organizations focused on improving business operations. Beau is a faculty

member and instructor for curriculums at the Lean Enterprise Institute and Ohio State University's Fisher School of Business, and a Faculty Fellow at the Shingo Institute at Utah State University. Beau is a co-author of numerous journal articles and two award-winning books, The Complete Lean Enterprise (2nd Edition 2016); and Perfecting Patient Journeys (2012). Beau holds BSE and MBA degrees from the University of Michigan.

Brent Wahba

Brent began his innovation and continuous improvement career 30 years ago while working in R&D at General Motors and Delphi. While there, he led global systems businesses, product development organizations, operations and supply chain improvements, and an enterprise-wide combined strategic and lean transformation. For the past 10 years, he has coached and consulted with startup through Fortune 50 firms and become a leader in advancing lean thinking in Operations as well as Sales & Marketing, Strategy, and New Product Development. Dedicated to "improving improvement," Brent is on the faculty of the Lean Enterprise Institute and regularly contributes leadership articles to The Lean Post. He is also the author of The Fluff Cycle, which outlines a systems problem solving approach for improving Sales & Marketing outcomes. Brent holds a BS in Electrical Engineering and an MBA from the University of Rochester, plus an MS in Materials Science & Engineering from the Rochester Institute of Technology. He is currently the president of Strategy Science Inc., and a volunteer startup mentor with SCORE.

Steve Melito

Steve Melito is a Matching and Reporting Specialist for FuzeHub. He provides regular reporting for the Matching Team and is also a frequent contributor to the FuzeHub blog. In addition to his duties for FuzeHub, Steve is founder and owner of Thunderbolt Business Services, a content marketing agency for manufacturers. His manufacturing-related experience includes technical writing and training for an industrial directory, an aircraft maintenance management system, and ERP system for the printing industry. Steve holds a Bachelor's degree from Colgate University and a Master's degree from Southern Methodist University.

Register

Manufacturing USA Annual Report, Fiscal Year 2016

written by Lauri Moon | July 13, 2020

The Manufacturing USA Annual Report for Fiscal Year 2016 describes the program's work in helping to move discoveries in the nation's universities and research laboratories to the shop floor here in America. It highlights the nine *Manufacturing USA* institutes that were active in Fiscal Year 2016, and documents the network's progress toward increasing the competitiveness of U.S. manufacturing.

The *Manufacturing USA* network is a public-private program designed with a vision of U.S. global leadership in advanced manufacturing. Its institutes have a mission to develop game-changing technology and the skills needed to equip our future U.S. manufacturing workforce. Institutes also provide education and training so that American workers have "improved job opportunities and increased economic opportunity in promising technology areas that result in higher wages."

Highlights of the Manufacturing USA network in 2016 include:

- 830 industry members, two-thirds of which were manufacturing firms, including 361 small businesses.
- Non-federal funding exceeded the original goals of a 1 to 1 match, with federal funds being matched at a 2 to 1 ratio, indicating the value of the network to industry, academia and the states. In addition to manufacturing companies, the partnerships included a variety of academic institutions and federal, state, local agencies, laboratories, and not-for-profit organizations.
- A portfolio of diverse programs for students in high schools, community

colleges and universities; educators from kindergarten to twelfth grade; manufacturing employees; and transitioning veterans, so that the nation's workforce will be prepared for a renewal of advanced manufacturing. Institute-led programs have reached about 28,000 people.
- AIM Photonics, based in Rochester, New York, developed a shared toolkit that has helped members speed up the design and development of photonic devices, which use light instead of electricity to enable faster performance and new capabilities.
- PowerAmerica, in Raleigh, North Carolina, helped keep 400 highly-skilled manufacturing jobs at a facility, X-FAB Texas in Lubbock. The company was able to update its capabilities to become an "open foundry" that semiconductor companies can use to produce next-generation electronic products.

The annual report also highlights an assessment by Deloitte, which found that the first eight institutes, established between 2012 and 2016, have "reached a critical mass of valuable connections among participating companies, universities, and other entities. Those connections are accelerating the innovations needed to develop new products and markets, helping alleviate a shortage of technically trained manufacturing workers and building a sustainable national manufacturing research infrastructure."

There are now a total of 14 *Manufacturing USA* institutes, sponsored by the departments of Energy, Defense and Commerce.

Read the full Manufacturing USA Annual Report, Fiscal Year 2016

Citation information:

Manufacturing USA Annual Report, Fiscal Year 2016, Advanced Manufacturing National Program Office, National Institute of Standards and Technology, Department of Commerce (2017), https://www.ManufacturingUSA.com/resources/Manufacturing-USA-Annual-Report-Fiscal-Year-2016

Contact: Advanced Manufacturing National Program Office – (301) 975-2830

Deloitte 2017 Study – How Manufacturers Can Create Positive Perceptions with the US Public

written by Lauri Moon | July 13, 2020

In Deloitte's recent study on the perception of manufacturing, the vast majority of Americans surveyed continue to view manufacturing vital to economic prosperity. However, less than 5 in 10 believe manufacturing jobs are interesting, rewarding, clean, safe, stable, secure. Less than 3 in 10 are likely to encourage their children to pursue a manufacturing career. Yet, when asked what future jobs in manufacturing will look like, those surveyed have overwhelmingly optimistic views – future manufacturing jobs will require high-tech skills (88 percent) and will be clean and safe (81 percent), as well as more innovative (77 percent). Given these findings, manufacturers could benefit from uplifting current perceptions in order to attract talent. Click to read how manufacturers can help change the perception of manufacturing.

Click here for the full study and supporting information.