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Smart Factory Transformation: The 4 Pillars

Manufacturers continue to face increasing pressure to improve productivity, reduce downtime, and maximize the return on existing equipment investments. Yet many factories still operate with excessive setup time, fragmented production visibility, manual processes, and underutilized machine capacity.

This session introduces a practical framework for Smart Factory Transformation built on four key pillars: Standardization, Metrology, Loading & Transfer, and Software. Together, these technologies help manufacturers improve machine utilization, reduce hidden manufacturing costs, and establish a foundation for scalable and sustainable growth.

Participants will learn how standardized workholding systems can reduce setup time, how offline metrology supports consistent quality control, how robotic automation enables extended unmanned operation, and how MES/JMS platforms provide real-time visibility into shop-floor performance.



Key Takeaways

- Strategies to reduce setup time and improve machine utilization
- Best practices for integrating quality control into production workflows
- Practical approaches to automation and lights-out manufacturing
- How MES and production management software improve operational visibility
- Building a scalable Smart Factory roadmap through connected technologies

Who Should Attend

- Business Owners
- Managing Directors
- Plant Managers
- Production Managers
- Manufacturing Engineers
- Process Engineers
- Automation Engineers
- Continuous Improvement Teams

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