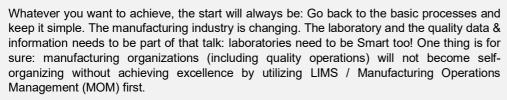
# LIMS in Manufacturing: All You Need to Know! (SA031)

Reasons for deploying a Laboratory Information Management System (LIMS) can be quite diverse:

An Expert Division of ATS Global

- To be compliant to Tracking & Tracing requirements more efficiently
- · Not typing over data from equipment
- Reducing the risk of errors by having better data integrity
- Replacing custom developed solutions and uncontrolled Excel sheets.



This 1-day program provides an extensive overview of LIMS/MOM and how to leverage its full potential both on short and long term. The course introduces the relevant industry standards for Manufacturing Quality, like ISA-95, and other aspects to create a well-designed roadmap to improve your quality performance.

You will learn about the solutions available to you today and tomorrow, and about the best practices for successfully justifying, implementing and sustaining them long term.

#### **Agenda**

- Introduction
  - o What is LIMS? And what is the rest? (LIS, LES, CDS, ELN, SDMS, ...)
- MOM Standards
  - o ISA-95: Enterprise Control System Integration, and other standards
- Architecture
  - o Relation to production, maintenance, inventory and enterprise solutions
  - o Interfacing and interfacing concepts
- Metrics / Analytics that Matter
- Discover the Benefits: How to justify your investment in LIMS?
- Select the software
  - Best-practice methodology to select a sufficiently good LIMS
- Implementation strategies and project execution
  - o Waterfall, scrum, agile, ...
  - o Stakeholder and change management
- Role of LIMS in Smart Manufacturing / Industry 4.0
- · Conclusions and Wrap-U

The workshop comprises several interactive activities ranging from plenary Q&A sessions to group assignments.

#### **Price and Schedule**

Registration Fee: USD 990 | EUR 895 | GBP 825 | SGD 1195

Schedule: see www.mom-institute.org or ask Sarah Knight (sara.knight@mom-institute.org).

### **Vision**

MOMi's vision is to support manufacturers embarking on manufacturing excellence programs, MES/MOM deployment and the transition to the 4th Industrial Revolution.

MOMi offers best-practice education and business consultancy services to support the full change cycle from awareness and feasibility to continuous improvement initiatives in a dynamic operations environment.

MOMi provides independent education programs to manufacturers, preparing their people to leverage new smart technologies through the power of knowledge.

# Our experience, your success

# MOMi's Instructors Thought Leaders in Manufacturing Operations

- MOMi's team of instructors has extensive experience in manufacturing and education. The instructors are also excellent business consultants.
- MOMi's education services comprise many standard courses and workshops on relevant topics.
- Programs are delivered as public sessions as well as inhouse. In the last case, the content can be tailored to your specific situation.
- MOMi's education programs and workshops are delivered by independent, professional instructors.

#### www.mom-institute.org



#### **MOMi Education: A Comprehensive Set of Programs**

- · Smart Manufacturing and Industry 4.0 strategy
- MES/MOM for Executives
- · Business Case
- Innovate Change
- MOM related ISA Standards
- Cvber Security
- MESA MES/MOM Global **Education Program**

- · Manufacturing Maturity
- · Business and IT Alignment
- MOM Centre of Excellence

- · Metrics Framework
- Continuous Improvement

# **Strategy & Awareness**

- Smart Manufacturing & Industry 4.0 Strategy In this workshop, practical, deployable smart manufacturing strategies are discussed, and the vision of Smart Manufacturing and Industry 4.0 examined. Based on considered Smart Strategies to start implementing the vision, the participants walk away with a plan of action to deliver that most valuable of commodities
- MES/MOM for Executives The MES/MOM for Executives provides an independent view of MES/MOM and the benefits and pitfalls for manufacturers.
- **Business Case**

This workshop provides practical approaches to identify the key business elements and risks and to justify MES/MOM projects. The participants gain experience in quantifying the potential benefits from exercises based on real cases.

# Standards & Methodologies

- · MOM related ISA Standards (e.g. ISA-95, ISA-88) These courses define approaches to integrating manufacturing systems with enterprise business systems, other manufacturing systems and automation & control systems. Models are presented to standardize manufacturing processes and activities
- Cyber Security

This course is based on the ISA/IEC-62443 (ISA-99) standard: Security for industrial automation and control systems. An approach is presented to implement security effectively and efficiently in manufacturing and automation & control systems. Program and processes of a cyber security management system to sustain security are discussed and trained through exercises

MESA MES/MOM Global Education Program

The MES/MOM Methodologies program instructs manufacturers, producers and solution providers on how to marry the power of modern Information Technologies (IT) and the process / project rigor to implement them with your operational expertise to unlock the potential within your operations.

#### **Metrics & Performance**

Metrics Framework

This interactive workshop provides insight in how to define an appropriate metrics framework to monitor key aspects of manufacturing performance to drive improved real-time decision making. This include strategic, tactical and operational aspects of manufacturing operations. The participants are trained in defining/selecting the relevant metrics in real cases and construct the metrics structure via a top-down and bottom-up approach. The Metrics Maturity Model is introduced as a guide for performance assessment.

Continuous Improvement

These Continuous Improvement workshops provides understanding of the various methodologies and when and how to apply them in manufacturing.

• Introduction of Lean Manufacturing, Kaizen and Six Sigma

- Variability Reduction and Standardization
- Continuous Improvement in Manufacturing
- DMAIC process

#### **Maturity & Alignment**

Manufacturing Maturity

This workshop introduces the concept of the manufacturing maturity model to align the operational processes, the organization, the people's skill sets and the enabling and supporting technologies (IT). The ISA-95 Activity Model is used as a tool to determine the level of an organization's capability to have mature, robust and repeatable manufacturing operations

Business and IT Alignment

Alignment of Business and IT is a prerequisite for improving manufacturing maturity. The participants learn to assess and to create a step-by-step approach to enhance this alignment. Aspects included are business strategy, IT strategy, organizational and infrastructural processes and IT infrastructure and processes.

MOM Centre of Excellence

Successful execution of a manufacturing transformation strategy to increase their manufacturing maturity requires re-organization and alignment of corporate IT and manufacturing engineering priorities. The participants learn how to setup a MOM Centre of Excellence team that can bridge the gaps between the corporate enterprise and the local plants and connect manufacturing and IT in order to increase the manufacturing maturity and therefore the company's performance.

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