



Consulting and Training | Reach New Heights

Course Name

Collecting of Machine Data

Sector Name

Digital Transformation and Innovation

Document Type

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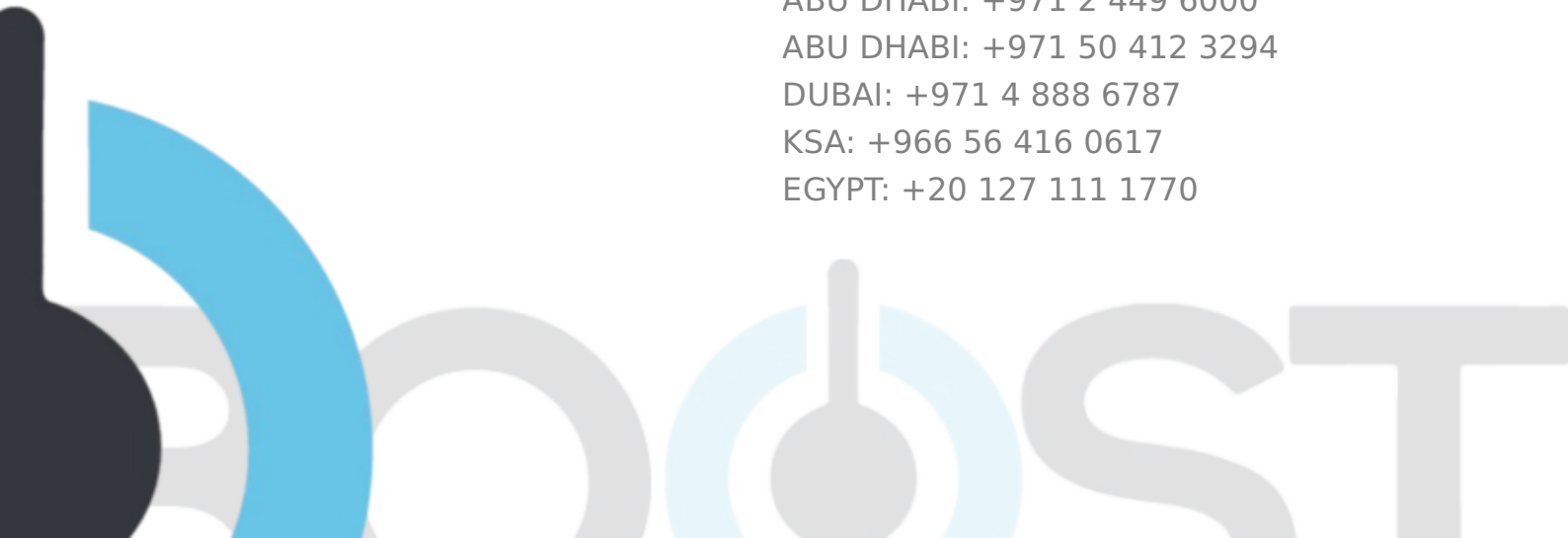
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Collecting of Machine Data

Course Introduction

Collecting machine data digitally is the first step towards digitizing the whole production process. This is because machine data collection brings transparency to your production processes through automatically collecting and storing information and making this accordingly available. This training program is designed to provide participants with the essential concepts of machine data collection. This training program introduces topics such as MDC systems, software, the advantages of collecting machine data, and production data acquisition.

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Collecting of Machine Data

Target Audience

- ✓ Data Engineer
- ✓ Industrial Engineer
- ✓ IoT Specialist
- ✓ Automation Engineer
- ✓ Manufacturing Engineer
- ✓ SCADA Engineer
- ✓ Maintenance Manager
- ✓ Instrumentation Engineer
- ✓ Operations Analyst
- ✓ Machine Learning Engineer

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Learning Objectives

- ✓ Gain a comprehensive understanding of what machine data is and the importance of collecting it in digitizing the production process.
- ✓ Identify the activities involved in machine data collection.
- ✓ Recognize the types and components of machine data.
- ✓ Select the most appropriate system to automate machine data collection.
- ✓ Learn some of the software available in the market and the considerations to be taken when choosing MES software.

Training Program Methodology The training program is implemented by combining the participants' academic knowledge and practical practice

(30% theoretical / 70% practical activities).

This program focuses on exercises, case studies, individual and group presentations, and Role-playing, among other advanced training techniques.

A detailed report is submitted to each participant and the training department in your organization on the results of the participant's performance and the return on training.

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Collecting of Machine Data

Course Outline

✓ Day 01

What does machine data collection (MDC) mean?

- ✓ Machine data collection and production data acquisition.
- ✓ What are the tasks of machine data collection?
- ✓ Recording production quantities.
- ✓ Real-time machine monitoring.
- ✓ Reporting machine malfunctions.
- ✓ Analysing production processes.
- ✓ Analysing the reasons for malfunctions during downtime.
- ✓ What does machine data collection aim to achieve?

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Collecting of Machine Data

Course Outline

✓ Day 02

What is machine data?

- ✓ Types of Data.
- ✓ Process Data.
- ✓ Product Data.
- ✓ Components of Machine Data.
- ✓ Production volumes, Yields, and reject quantities.
- ✓ Utilization.
- ✓ Run times.
- ✓ Availability and reliability.
- ✓ Machine status.
- ✓ Practical application.

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Course Outline

✓ Day 03

Disruptions and downtime.

- ✓ Energy consumption.
- ✓ Advantages of Data Collection.
- ✓ Optimization of machine run times.
- ✓ Increase in machine availability.
- ✓ Reduction in set-up and lead times.
- ✓ Machine utilization overview.
- ✓ Service intervals can be planned better.
- ✓ Recording of quality data. ✓ Practical application.

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Course Outline

✓ Day 04

How is automated machine data collection carried out?

- ✓ Enterprise Resource Planning system (ERP).
- ✓ Advanced Planning and Scheduling system (APS).
- ✓ Manufacturing Execution System (MES).
- ✓ Reliable machine data collection using the right software.
- ✓ Software is available in the market.
- ✓ What should you take into consideration when choosing your MES software?

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Course Outline

✓ Day 05

Intuitive system operation.

- ✓ Simple visual representation of your machine data.
- ✓ Flexibility of the machine data collection process.
- ✓ Practical application.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 \$	UAE , Dubai
Sept. 21, 2026	Sept. 25, 2026	5 days	4950.00 \$	Italy , Rome
March 14, 2027	March 18, 2027	5 days	4250.00 \$	Bahrain , Manama
April 26, 2027	April 30, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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