With many live applications

The certified

Industrial Data Manager

Analytics Know-how for Production and Supply Chain

Course Description

Digitalization at the touch of a button - is that possible? In future scenarios the fast connection between people, machines and data through artificial intelligence may work. But the situation in day-to-day business is quite different. Here, the transformation to smart factories does not depend on machine intelligence, but rather more on the **competencies of managers and employees**. The ability to use various data is one of the most important prerequisites to understand why problems such as machine breakdowns or quality defects occur in the factory, and to solve and even prevent those problems through implementing smart solutions and digital use cases.

With this 4-day qualification program you will acquire practical knowledge on how to **collect**, **visualize** and **analyze data**. Based on an ideal mix of theory, practical exercises and live applications, you will learn how to **improve processes in production and supply chain** through proper use of process and product data. After successful participation you will receive from ROI-EFESO your certificate as „Industrial Data Manager" as proof of your new Analytics skills.

The qualification program is characterized by **high practical relevance**, which is reflected in **applying different digital tools and platforms** in order to have hands-on learning and to transfer the learnings to the own company environment.

45 min.	**Return on Data Analytics** Overview about competencies, use cases and benefits	**Pre-class activity** *Learning video*
1 day	**Connectivity through digital networking** Exploiting data sources for more data availability	**Module 1** *Classroom training*
1 day	**Information by means of visualization tools** Evaluating collected data and developing data models	**Module 2** *Classroom training*
1 day	**Knowledge creation through analytics tools** Optimizing processes through systematic use of data	**Module 3** *Classroom training*
1 day	**From predictive analytics to autonomy** Implementing learning and self-controlling systems	**Module 4** *Classroom training*

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Overview training modules and content

Pre-class activity

45 min.

Return on Data Analytics

- Competencies of a modern Analytics organization
- Analytics Use Cases for process improvements
- KPIs and benefit assessment of Analytics projects

Module 1

Day 1

Connectivity through digital networking

- Linking of processes, data sources and IT systems
- Collection of data through sensors and retrofitting
- Development of data models for use cases

Module 2

Day 2

Information by means of visualization tools

- Use of IoT platforms and Cloud technologies
- Creation of dashboards for data visualization
- Digital Shopfloor and Performance Management

Module 3

Day 3

Knowledge creation through analytics tools

- Use of modern Analytics tools for data analyses
- Digitized workflows for analyzing and solving problems
- Process Mining for process analyses and improvement

Module 4

Day 4

From predictive analytics to autonomy

- Application fields of Advanced Analytics tools
- Artificial Intelligence, Machine and Deep Learning
- Robotic Process Automation (RPA)

Target group

This qualification program is directed to **managers and professionals** from **production**, **maintenance**, **quality**, **supply chain**, **industrial engineering**, **IT & OT** as well as **process and quality engineers**.

Your benefit

✓ You get a well-founded overview of how to realize efficiency gains by **using Analytics** in production and supply chain.

✓ You learn the technological interrelationships and possibilities for the **collection, analysis and use of data** based on application scenarios and examples.

✓ You experience the usability and the added value of **Analytics tools** and **platforms** for your company by applying those in various practical exercises.

✓ You understand how to use data for **accelerating problem-solving** in the factory and how to **improve the value stream** through data-driven process improvements.

✓ You learn more about how to assess the **benefit of Analytics use cases** for digitalization in the factory, and which **skills** are required to develop and implement those use cases.

✓ You receive your **certificate as "Industrial Data Manager"** from ROI-EFESO after successful participation in the 4-day qualification program.

Participation fee

The special price per person is EUR 2,450.00 plus statutory VAT for booking the 4-day certification program **Industrial Data Manager**. The program is conducted for min. 8 and max. 12 attendees.

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