

Festo Training and Consulting

From industry – for industry

FESTO



DT211

Basics of Industry 4.0 at the CP Factory/CP Lab

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While it is a trending topic, Industry 4.0 is not widely understood, because there are different ideas of what it actually means. The reality is that Industry 4.0 offers companies numerous opportunities and advantages by improving productivity, quality, and processes.

Additionally, Industry 4.0 provides a technology-driven change for many industrial applications that previously could only be realized through time-consuming, manual processes or didn't exist at all; applications that have a far-reaching effect throughout a manufacturing company, ranging from production planning, maintenance, and order management to operations control.

This training provides participants with insight into Industry 4.0 technologies. Practical exercises, using our own professional learning systems – CP Factory or CP Lab – enable the assessment and evaluation of the latest technological possibilities and applications. Both systems convey highly complex technologies and digital production methods, encapsulating comprehensive training on Industry 4.0/Industrial Internet of Things topics.

DT211

Basics of Industry 4.0 at the CP Factory/ CP Lab

Training content

- Changes initiated by Industry 4.0 technologies
- VDMA Guidelines* and Festo Maturity Analysis on Industry 4.0
- Terms used in the context of Industry 4.0 (Cloud, big data, networking, MES, RFID, customized manufacturing ...) and their application at the CP Factory/CP Lab
- Basic structure of the CP Factory/CP Lab and material flow
- Communication channels of the CP Factory/CP Lab
- Becoming familiar with the components of a CP Factory or CP Lab module
- Implementation of the automation pyramid at the CP Factory/CP Lab

Training outcomes

After completing this training course, the participants:

- know the drivers and terms related to Industry 4.0
- can use the terms related to I4.0 in a proper way
- are able to commission an application
- know the operating modes of the system (default mode and MES mode) and understand their functions

Target group

Vocational teachers as well as professionals from industry, who are interested in learning the basics of Industry 4.0 in a practical way

Duration

1 or 2 days



All Festo Didactic training courses offer the following additional benefits:

- Post-tests can additionally be used to monitor the training effectiveness
- Our trainings can be customized and carried out worldwide (on demand)
- Trainings take place with real industrial components, used in a safe environment
- Our trainers are certified according to our internal trainer qualification „Festo Certified Training Professional“ and have many years of industrial experience

*VDMA (Verband Deutscher Maschinen- und Anlagenbau):
German Mechanical Engineering Industry Association