

# Festo Training and Consulting

## From industry – for industry



DT251

### **CP Factory/CP Lab Training – Production Planning and Control in Smart Factories**

609518

[www.festo-tac.com](http://www.festo-tac.com)  
[tac.global@festo.com](mailto:tac.global@festo.com)

Smart factories and Industry 4.0 will make production planning and control (PPC), which has always been a core task of a manufacturing company, an even more crucial element. A few of the key characteristics of I4.0 are the capability for higher product diversity, more customer-specific solutions, and fulfilling the demand for batch size one. PPC is implemented to ensure production processes operate smoothly under optimal economic conditions. Deficient or faulty PPC often results in problems with delivery, cost, or quality. Therefore, designing an efficient PPC system is indispensable for any manufacturing company.

This training provides insight into PPC principles and the basics of Manufacturing Execution Systems (MES) and applications. After completing this training, participants will be able to simulate processes and analyze data and basic value streams.

DT251

## CP Factory/CP Lab Training – Production Planning and Control in Smart Factories

### Training content

- Principles of production planning and control
- Basics of Manufacturing Execution Systems (MES) and their integration in the company network
- Data analysis for process and layout optimization
- Usage of process simulations to evaluate adaptations
- Designing layouts for optimal production flows

### Training outcomes

After completing this training course, the participants:

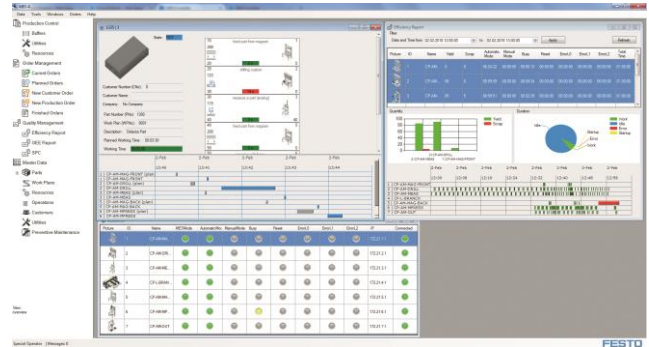
- know the principles of production planning and control
- know which tasks can be fulfilled by a MES and how it is integrated in the company network
- are able to analyze data of previous production processes to identify opportunities to optimize the process
- can make a basic value stream analysis of production processes in order to increase the flow
- are able to use process simulations (CIROS®) to test their optimizations in a virtual environment

### Target group

Production planner, operators (working with MES), experts from process optimization as well as vocational teachers

### 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