

# Festo Training and Consulting

## From industry – for industry

**FESTO**



DT221

### **Basics of Product Identification at the CP Factory/CP Lab**

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One of the advantages of Industry 4.0 is the interplay of material and information flow. The product becomes the carrier of all required manufacturing information, controls itself while moving through production, and informs the individual work stations which processing steps to perform. The technical implementation of this communication can be realized in many ways, most commonly, radio frequency identification (RFID) and near field communication (NFC).

After completing this training, participants recognize the typical methods of industrial product identification, the pros and cons of each, and application possibilities. Subsequently, they can assess the benefits of these methods for their own production sites. For this training, our own professional learning systems: CP Factory or CP Lab are used. Both systems convey highly complex technologies and digital production methods, encapsulating comprehensive training on Industry 4.0/Industrial Internet of Things topics.

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## Basics of Product Identification at the CP Factory/ CP Lab

### Training content

- The product as a carrier of its own information
- The connection of material and information flow
- Inductive methods for product identification
- Optical methods for product identification: barcode and QR code
- Radio wave-based methods: RFID and NFC
- Structure, capacity and contents of the communication technologies
- Stability through error-correcting codes
- Reading and writing information
- Application and use of typical methods in industrial automation
- Practical examples and exercises

### Training outcomes

After completing this training course, the participants:

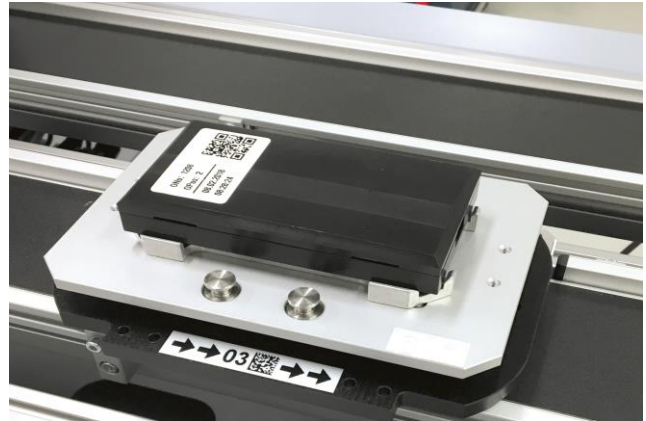
- know the typical methods of industrial product identification and their potential application
- can choose appropriate product identification methods based on advantages and disadvantages
- can assess the benefits of those methods for their individual production sites

### Target group

Vocational teachers, maintenance specialists, experts for process optimization as well as experts from engineering/design

### Duration

1 day



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