

Level 2: Advanced Mechatronics

Product ID Fundamentals

Estimated Duration: 20 hours

Level 2

In modern Industry, the ability to identify products and make decisions based on this data is a critical factor. There are various means to do this and this course will explore three of those areas. This course will give participants the ability to explore and understand RFID (Radio Frequency Identification) utilizing Tags, Readers, and Writers as well as Vision Systems that utilize QR Coders/Barcodes. All of these elements provide critical data that modern industry relies on.

Course Topics

- Vision Technology I
- RFID I
- Bar Coding I

Core Competencies

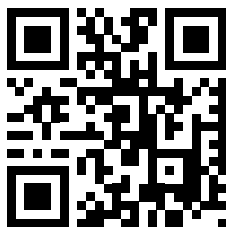
- Choose the best Product ID device for various applications
- Determine inspection goals
- Estimate the inspection time
- Identify features or defects
- Define various methods of product identification
- Identify and explain the function of various elements of product identification
- Explain Radio frequencies: LF, HF, UHF, and SHF Systems
- Identify various barcode types
- Describe Symbology and Standards

Equipment

MPS-203 I4.0

Product ID can be learned on many training systems from Festo including our CP Lab/Factory systems or with MPS203 I4.0. This system can also be used for Basic Networking and Applied Industry 4.0. It is comprised of 3 stations and includes:

- Vision System (optional)
- RFID Reader/Writers
- RFID Tags



The same system can apply to Product ID and I4.0 certifications.