# Advanced Smart Maintenance

FESTO

Level 3

This certification provides a comprehensive approach to smart maintenance within an Industry 4.0 framework, emphasizing practical skills and strategic knowledge. The certification focuses on smart maintenance strategies and technologies in the context of Industry 4.0. Students will gain hands-on experience with advanced maintenance concepts, integrating predictive maintenance, cyber-physical systems (CPS), and process optimization.

**Industry Recognized Certification Topics**

- Advanced Maintenance Concepts
- Smart Maintenance and Industry 4.0 Integration
- Maintenance Strategies:
- Reactive
- Preventive
- Risk-Oriented
- Predictive Maintenance
- Maintenance Tools and Techniques:
- Pneumatic Valves
- DC Motors
- Encoders
- Sensors

**Units - 6 / Labs - 4**

**Industry Recognized Certification Competencies**

- Understand Maintenance Concepts
- Implement Smart Maintenance
- Select Appropriate Maintenance Strategies
- Operate and Troubleshoot Equipment
- Perform Predictive Maintenance
- Track and Optimize OEE